

Caesalpiniaceae
of
Northern South America

Br. Har, N. L. & J. N. Rose

Is Clathrus within this family? N.B. 1891: 359

Caesalpinaceae

Northern South America

- Vogelocarpus -
no specimens of V.
leiophylla from N.B.A.
but it must occur

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Dicymba 142
56a

19. *Lyre ca te* *Mara*

55. *Brounea grandiceps* -

100 *Brounea* *ly*

101 *Brounea*

See *Sauville* H. B. 1931 - *hirsuta* -

Bauhinia [Mun. J. L.]

Type species: *Bauhinia aculeata* L.

2

~~*Bauhinia* in northern South America~~

1. *Bauhinia* *Pauletia* Pers. Syn. 1: 455. 1805.

X (?) *Bauhinia emarginata* Mill. Gard. Dict. ed. 8. no. 5. 1768.
Bauhinia spinosa Poir. in Lam. Encycl. Suppl. 1: 599. 1810.
? *Pauletia multinervia* H.B.K. Nov. Gen. 6: 316. 1824.
Bauhinia multinervia DC. Prodr. 2: 515. 1825.

Type locality: Panama.

Distribution: Trinidad [Britton, Hazen & Broadway 2009;
Williams 11841]; Venezuela [Rose 21960]; Colombia [Killip & Smith
14300]; ^{Reverel 20 J} Porto Rico. Sinaloa to Panama.

Illustration: Cav. Icon. pl. 410, as *B. aculeata*.

2. *Bauhinia caudigera* Blake, Contr. U. S. Nat. Herb. 20: 522. 1924.

Type locality: Guaremales, Carabobo, Venezuela.

Distribution: Venezuela [Pittier 8851, 8914]

3. *Bauhinia glaucescens* (H.B.K.) DC. Prodr. 2: 515. 1825.

Pauletia glaucescens H.B.K. Nov. Gen. 6: 316. 1824.

Type locality: Caripe, Cumana, Venezuela.

Distribution: Known only from the type locality and to me
from the description of the barren type specimen only.

Note. Unknown to Mr. Pittier, 1928.

X *B. emarginata* Mill

Cartagena - Not at Washington Oct. 1932

3
4. Bauhinia megalandra Griseb. Fl. Br. W. Ind. 213. 1860.

Type locality: St. Kitts.

Distribution: Trinidad [Broadway] Venezuela [Pittier 5982; Broadway 635]; St. Vincent; St. Kitts; Antigua.

5. Bauhinia Benthamiana Taubert, in Engl. & Prantl. Nat. Pflf. 3²:
149. 1892.

Bauhinia macrostachya Benth. Journ. Bot. Hook. 2: 96. 1840. Not Wall.

Type locality: British Guiana.

Distribution: British Guiana (ex Bentham); Venezuela ? Brazil. ✓

Note. ~~Not in New York Herbarium, May, 1928.~~

6. Bauhinia mirandina Pittier, Arb. & Arb. Ven. 87. 1927.

Type locality: Los Mariches, Miranda, Venezuela.

Distribution: Venezuela [Pittier 11783, 11571, ? 11989]

6 e ? B. multinervis HBK Venezuela ? yes. -
Pue

7. Bauhinia Bredemeyeri Vogel, Linnaea 13: 302. 1839.

Type locality: Caracas, Venezuela.

Distribution: Venezuela [Pittier 8927, 12057; Fendler 335; Box 32]

Note. Distinct from B. Pauletia ?

4

8. Bauhinia ungulata L. Sp. Pl. 374. 1753.

Pauletia inermis Cav. Ic. 5: 6. 1799.

Bauhinia inermis Pers. Syn. 1: 445. 1805.

Bauhinia Cavanillei Millsp. Field Col. Mus. Bot. 1: 364. 1898.

Type locality: America.

Distribution: Venezuela [Pittier 10867, 11301; Bailey 1436];

Colombia [Pennell 3977] Guerrero to Panama.

(K. & S. 14300; 14428)

9. Bauhinia aculeata L. Sp. Pl. 374. 1753.

Bauhinia ungula Jacq. Fragm. 22. 1801.

Type locality: tropical America.

Distribution: Venezuela [Pittier 6425¹²¹⁹⁴; Rose & Rose 21655];

Colombia [~~Funcke & Schlim 19; Holton~~]

Illustration: Jacq. Fragm. pl. 15, f. 1; Jacq. Stirp. Am.
pl. 177, f. 2.

10. Bauhinia mollifolia Pittier, Arb. & Arb. Ven. 88. 1927.

Type locality: between San Rafael and Agua Blanco, Cojedes,
Venezuela.

Distribution: Venezuela [Pittier 11726]; Colombia [Killip &
Smith 16242, 16525, 16528^{no 886}]

5
11. Bauhinia glandulosa (H.B.K.) DC. Prodr. 2: 513. 1825.

Pauletia glandulosa H.B.K. Nov. Gen. 6: 314. 1824.

Type locality: Nueva Barcelona.

Distribution: ? Venezuela [Pittier 9695 ?] See Pittier.

12. Bauhinia mollicella Blake, Contr. Gray Herb. 53: 32. 1918.

Type locality: Vicinity of Las Cumbres, Venezuela. = mollicella

Distribution: Venezuela [Curran & Haman 1024] Colombia

[Killip & Smith 20886]

Note. See Pittier 12781, and compare B. Mollifolia Pittier.

13. Bauhinia picta (H.B.K.) DC. Prodr. 2: 515. 1825.

Pauletia picta H.B.K. Nov. Gen. 6: 316. 1824.

Type locality: Magdalena River, Colombia at Confluence (cf. H.B.K.)

Distribution: Known to me from description only. See Killip

Smith 19066. - Photo of type -

14. Bauhinia grandiflora Juss.; Poir. in Lam. Encycl. Suppl. 1: 600.

1810.

Type locality: Peru.

Distribution: Ecuador [Hitchcock 20018, 21143; Rose & Rose

22454; Mille; André ? 4317] Peru.

~~Java~~ Virey. Inga

✓ 13028 Java

✓ 13332 Carachensis

✓ 9859 Caracosana

✓ 13157 Grandifolia

13040 Camurivensis

✓ 12883 Mendensis

✓ 10925 Riparia

Those checked we have, &
I have compared with

Col. species

9/1 + 100

6
15. Bauhinia petiolata (Mutis) Triana; Hook. Bot. Mag. pl. 6277. 1877.

Amaria petiolata Mutis, Sem. Nuev. Gran. 25. 1810.

X
Type locality: New Granada.

Distribution: Colombia [Triana 4412]

16. Bauhinia sessilifolia (Mutis)

Amaria sessilifolia Mutis, Sem. Nuev. Gran. 25. 1810.

X
Type locality: New Granada.

Distribution: Known only from Colombia.

Note. Not in New York Herbarium, May, 1928.

Willis will send me what may be it

17. Bauhinia magnifica Rose, ined.

Vicinity of Portovelo, Ecuador [Rose & Rose 23376]

See Rose's original description & check against
B. grandisilvina

18. Bauhinia duranensis Britton, provisional

Vicinity of Duran, Ecuador [Rose & Rose 23589]

19. Bauhinia Dobbieorum Rose, ined.

Vicinity of Huigra, Ecuador [Rose & Rose 22119, type;

Hitchcock 20625]

Description: Britton & Rose

7
20. Bauhinia Seminarioi Harms, Bot. Centr. 73: 53 (69) 1898.

Type locality: Ecuador.

Distribution: Known only from type specimen (Eggers 14925)

Note. A prickly species, not in New York Herbarium.

Specimen probably at Washington

21. Bauhinia incurva Britton, provisional

In yard, Bucaramanga, Santander, Colombia [Killip & Smith 14978]

*descri. written [Not at Washington, Oct 1928]
[Send photo to Killip]*

22. Bauhinia cinnamomea DC. Prodr. 2: 517. 1825.

Type locality: Cayenne. French Guiana.

Distribution: Known to me only from description.

Note. Leaves undivided - Schnella ?

23. Bauhinia antioquiensis Britton, provisional

Puerto Berrio Antioquia, Colombia [Pennell & Rusby 43] See Killip
& Pennell 19066, in fruit, perhaps the same species. 19066 ? *hinter*

descri. written

(63)
24. Bauhinia Ellertsii Pulle, Rec. Trav. Bot. Neerl. 6: 269. 1909.

Type locality: Surinam.

Distribution: Known to me from description only.

Note. See Fedde, Repert. 10: 287.

Key to species of Bambusa from Canada

Petals red spreading only a little at the tip, ^{branches} not shiny

1 *B. deborum*

Petals white; branches ^{usually} shiny (perhaps usually, species no 3)

Leaves glabrous; calyx glabrous

2 *B. sempervirens*

Leaves pubescent; calyx pubescent.

Flower very large (2 dm broad) 3 *B. magnifica*

Flowers much smaller than in the last

4 *B. ~~grandiflora~~* ^{not}

8
25. Bauhinia Versteegii Pulle, Enum. Vasc. Pl. Surinam 213. 1906.

Type locality: Upper Gonini River, Dutch Guiana.

Distribution: Known only from the type locality, and to me only from description and illustration.

Illustration: Pulle, loc. cit. pl. 11.

Note: Species with oblong, entire, acuminate leaves. Stamens 10, all antheriferous.

26. Bauhinia bicuspidata Benth. in Mart. Fl. Bras. 15²: 193. 1870.

Type locality: Yapuri, Alto Amazonas, Brazil.

Distribution: Dutch Guiana (ex Pulle). Brazil.

27. Bauhinia Kalbreyeri Harms, Repert. 19: 65. 1923.

Type locality: Murri, Antioquia, Colombia.

Distribution: ~~Known only from type locality, and to me from description only. Leaves 15-22 cm. long, 10-15 cm. wide.~~

28 Bauhinia toroana Britton, provisional

Choco, Colombia [Toro 790] desc. written

28. Bauhinia Toroana Britton, provisional

Armenia, near Medellin, Colombia [Toro 790]

desc. written

9
29. Bauhinia angustiloba Britton, provisional

Isla brava, Magdalena River, Colombia [André 355] Specimen barren.

30. Bauhinia acuminata L. Sp. Pl. 375. 1753.

Type locality: India.

Distribution: Dutch Guiana (ex Pulle)

Note. This is an Asiatic species.

31. Bauhinia

Venezuela: [Pittier 6460; Curran & Haman 1059]

32. Bauhinia

Venezuela [Pittier 11208] See B. unguolata.

33. Bauhinia rotundifolia ^{ata} Mill. Gard. Dict. ed. 8, no. 5. 1768

Type locality: Cartagena, "New Spain"

Distribution: Species known to me only from the original description.

Not at New York Bot. Garden, Oct. 1952

34. Nautica Schultzei Thomas, Rept. P. T. Nov.
24: 210. 1928 (10)

Type locality: Upper Rio Tiro, Puerto Nevada de
Punta Manta, Colombia. [Schultze 1928]
Distribution: ~~Known to me from photographs~~
~~to the type specimens only.~~ [Not at Washington, Oct. 1932]
Note - near N. marginata Hill (ex Thomas)

35. Nautica scale-hinniae Paul Smith, New Bull
[Vol 3 1931:]

Type locality:
Distribution

Petroleum?

Schnella Raddi
Type species: *Schnella macrostachya Raddi* (11)

2 *Schnella* in northern South America

1. *Schnella excisa* Griseb. Fl. Br. W. Ind. 214. 1860.

Bauhinia excisa Hemsl. Bot. Biol. Contr. Am. 1: 337. 1879-1888.

Type locality: Irais, Trinidad.

Distribution: Trinidad [Dannouse; Broadway 2218, 7650;

Britton, Freeman & Nowell 2580; Britton & Hagan 1198]

Panama (ex Grisebach)

2. *Schnella heterophylla* (Kunth) Kunth, *Yucca* L. Cat. Pl. Cub. 81. 1866

Bauhinia heterophylla Kunth, Mim. 157. 1819.

Type locality: Aragua and Puerto Cabello, Venezuela.

Distribution: Venezuela [Pittier 10612]

Illustration: Kunth, loc. cit. pl. 46.

3. *Schnella cumanensis* (H.B.K.) Britton & Rose, *N. Amer. Flora* 23: 206. 1930

Bauhinia cumanensis H. B. K. Nov. Gen. 6: 521. 1824.

Schnella brachystachya Benth. Journ. Bot. Hook. 2: 98. 1840.

Type locality: Cumana, Venezuela.

Distribution: Venezuela [Pittier 9149, 11080, 11962; E. ⁷⁰];

Pittier 23; Rose & Rose 21765; Curran & Haman 533]; Margarita

[Miller & Johnston; Dutch Guiana (ex Pulle); British Guiana

(ex Bentham) *Cuba*.

Note. Determined from description - See Pittier Arb. & Arb.

Leg. 93. See Cuban plant.

12
4. Schnella colombiensis (Vogel) Benth. Bot. Voy. Sulph. 89. 1844.

Bauhinia colombiensis Vogel, Linnaea 13: 313. 1839.

Schnella longipetala Benth. Journ. Bot. Hook. 2: 98. 1840.

Bauhinia longipetala Walp. Repert. 1: 852. 1842.

(?) Bauhinia glabra Jacq. Enum. 20. 1760.

Type locality: Cartagena, Colombia.

Distribution: British Guiana (ex Benth); Colombia [Killip & Smith 14085, 14218, 14441, 14632, 14235, 14692; Funcke & Schlim 611; Heriberto 482; H. H. Smith 21; Rusby & Pennell 346; Elias 452]; Venezuela [Broadway 305] Brazil. (C)

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 53, f. 2; (?)

(?) Jacq. Stirp. Am. pl. 173, f. 3.

4 in Schnella longipetala
5. Schnella trinitensis Britton, provisional

Chacachacare, Trinidad [Britton & Hazen 1727]

Descriptive written

with draw =
curved lines

6. Schnella splendens (H.B.K.) Benth. Journ. Bot. Hook. 2: 97. 1840.

Bauhinia splendens H.B.K. Nov. Gen. 6: 321. 1824.

Type locality: Orinoco River.

Distribution: British Guiana [La Cruz 3699] Venezuela (ex Pittier). Guadeloupe. Brazil

7. Schnella rutilans (Spruce)

Bauhinia rutilans Spruce; Benth. in Mart. Fl. Bras. 15²: 206. 1870.

Type locality: Esmeralda, Orinoco River, Venezuela.

13

Distribution: Known only from the type locality, ~~and to me~~
~~only from description and illustration.~~

Illustration: Benth. loc. cit. pl. 53, f. 1.

8. Schnella cordata Britton, provisional.

British Guiana [La Cruz 1742 type; Jenman 3627]

Schnella cordata Britton
Schnella cordata Britton

9. Schnella Kunthiana (Vogel)

Bauhinia Kunthiana Vogel, Linnaea 13: 312. 1839.

Bauhinia rosea Miquel, Linnaea 18: 588. 1844.

Schnella rosea Walp. Rep. 5: 572. 1846.

Type locality: French Guiana.

Distribution: French Guiana and Dutch Guiana (according to
Bentham); British Guiana [Schomburgk 807; Jenman 6317, 7083,
7599; La Cruz 2499, 2471, 2735, 4340, 4418]; Dutch Guiana
(ex Pulle)

Schnella Kunthiana Vogel

10. Schnella macrostachya Raddi, Mem. Mod. 18: Fis. 411. 1820.

Bauhinia Raddiana Bong. Mem. Acad. St. Petersb. VI 4: 3. 1836.

Type locality: (Brazil)

Distribution: Colombia [André 1049] Brazil.

Illustrations: Raddi, loc. cit. f. 4; Bong. loc. cit. pl. 3.

14
11. Schnella vestita Benth. Pl. Hartw. 171. 1839.

Bauhinia vestita Macbride, Contr. Gray Herb. 59: 22. 1919.

Type locality: Pandi, Bogota, Colombia.

Distribution: Colombia [Hartweg 962; Holton 988; André
1737 bis; Triana 4410; Rusby & Pennell 1152, 1158]

12. Schnella Outimonta (Aubl.)

Bauhinia Outimonta Aubl. Pl. Guian. 1: 375. 1775.

Type locality: Guiana.

Distribution: Known to me only from description and
illustration. Dutch Guiana (ex Pulle)

Illustration: Aubl. loc. cit. pl. 144.

13. Schnella guianensis (Aubl.)

Bauhinia guianensis Aubl. Pl. Guian. 1: 377. 1775.

Type locality: Guiana.

Distribution: Known to me only from description and
illustration. Dutch Guiana (ex Pulle)

Illustration: Aubl. loc. cit. pl. 145.

14. Schnella coronata (Benth.)

Bauhinia dubia Vogel, Linnaea 13: 314. 1839. Not G. Don.
Bauhinia coronata Benth. in Mart. Fl. Bras. 152: 209. 1870.

Type locality: French Guiana.

Distribution: Known to me only from description. Dutch
Guiana (ex Pulle)

Note. Leaves divided to the base, as in the two preceding
species, and the following one.

15. Schnella superba (Steud.)

Bauhinia speciosa Vogel, Linnaea 13: 314. 1839. Not Roxb.
Bauhinia superba Steud. Nom. ed. 2, 1: 192. 1840.

Type locality: French Guiana.

Distribution: Known to me from ~~description only~~ *photograph of type*

specimen only

16. Schnella ? nitida Britton, provisional

Colombia [André 1938, type; Triana] ~~See 18. S. Steubeliana.~~

Det W. W. Britton

17. Schnella Poiteauana (Vogel)

(?) Bauhinia Richardiana DC. Prodr. 2: 517. 1825.
Bauhinia Poiteauana Vogel, Linnaea 13: 309. 1839.

Type locality: French Guiana.

Distribution: Known to me from ~~description only~~ *photograph of type & specimen*

only

16
18. Schnella Steubeliana (Harms)

Bauhinia Steubeliana Harms, Repert. 19: 65. 1923.

Type locality: Between Honda and Bogota, Colombia.

Distribution: Known to me ~~only~~ from description of the
type specimen. *only.* *Harms 2-Is. late*

19. Schnella (?) Hostmanniana (Miquel)

Bauhinia Hostmanniana Miquel, Verh. Nat. Wet. Haarl. 7: 10. 1851.

Type locality: Dutch Guiana.

Distribution: Dutch Guiana. Species unknown to me.

20. Schnella hymenaefolia (Triana) B. & R. *N. Am. Flora 23: 208. 1930*

Bauhinia hymenaefolia Triana; Hemsl. Diag. Pl. Mex. 3: 48. 1880.

Type locality: El Paraiso, Panama.

Distribution: Colombia. Panama

Note: Not in New York Herbarium, May, 1928.

21. Schnella rubiginosa (Bong.) Benth. Journ. Bot. Hook. 2: 97. 1840.

Bauhinia rubiginosa Bong. Mem. Acad. St. Petersb. VI. 4: 4. 112.
1836.

Type locality: (Brazil)

Distribution: British Guiana (ex Benthams) Brazil.

Note: Schomburgk, 115, is in National Herbarium.

22. Polinella Piquetivae (Bucke)
Rauhinia Piquetivae Bucke, Orchid. Jour. Bot.
Rio Janeiro 3: 108. 1922
Type locality: Teixeira, between Belém and Macaé, Brazil
Distribution: British Guiana (Purdie 603).
Brazil.

23. Polinella longipetala (Walp.) Reut.
laurea, Bot. Thes. 2: 98
Rauhinia longipetala Walp. Rep. 2: 852
Type locality
Distribution: Colombia and British Guiana
and Peru (ex Anthura) Brazil
not at Washington from Colombia
Oct. 1932

24. Polinella Murtisii A. R. K.
Colombia (Murtis 2175)

25. Polinella virga A. R. K.
Colombia (Murtis 4218) [? Holton 983]

26. Polinella strobilata A. R. K.
Rauhinia strobilata, Colombia (Bauer 446)

Casparopsis Britton & Rose (18)
Type species: *Bauhinia monandra* Kurz

3 ~~Casparopsis in northern South America~~

1. Casparopsis monandra (Kurz) Britton & Rose, *W. Ind. Flora* 23: 217. 1910

Bauhinia monandra Kurz, *Journ. Asiat. Soc. Bengal* 42²: 73. 1873.

Bauhinia Kappleri Sagot, *Ann. Sci. Nat.* VI. 13: 317. 1882.

Bauhinia Krugii Urban, *Ber. Deutsch. Bot. Gesell.* 3: 83. 1885.

Type locality: (India)

Distribution: Venezuela [Pittier 6325; Saer 197] Colombia

[Toro 249]; French Guiana; Dutch Guiana (ex Pulle); Widely

distributed in the West Indies. Native of tropical Asia.

4 Dimorphandra in northern South America

1. Dimorphandra excelsa (Benth.) Baill. Hist. Pl. 2: 167. 1870.

Mora excelsa Benth. Trans. Linn. Soc. 18: 210. 1839.

Dimorphandra guianensis Baill. Hist. Pl. 2: 149. 1870.

Dimorphandra Mora Benth. & Hook. Gen. Pl. 1: 588. 1865.

Type locality: British Guiana.

Distribution: Trinidad [Trin. Herb. 10172, 11255, 11333, 11341, 11342, 11343, 11344, 11348, 11467, 11468, 11469; Britton, Freeman & Nowell 2531; Britton & Hazen 419]; British Guiana [Schomburgk 496; Jenman 4327, 5096; La Cruz 1627; Persaud 81, 82, 172]; Venezuela (ex Pittier)

Illustration: Benth. loc. cit. pl. 16, 17.

2. Dimorphandra Gleasoni Rose [ined]

British Guiana [Gleason 214 type, 247; ? Hitchcock 17089]

Mora megistosperma (Pittier) R. & H. U. S. Nat. Herb. 27: 35

3. Dimorphandra megistosperma Pittier, Journ. Wash. Acad. 5: 472. 1915.

Type locality: near Sumacate, Darien, Panama.

Distribution: Colombia [Killip 5217]. Panama.

Illustration: Standley, Contr. U. S. Nat. Herb. 27: pl. 35.

= *D. oleifera*, Sch. ex Killip (Hydrocotyle)
see spec. - 1880

20
4. Dimorphandra conjugata (Splitg.)

Mora conjugata Splitg. in Hoen. & de Vriese, Tijdschr. 9: 109. 1842. ^

Dimorphandra latifolia Tulasne, Arch. Mus. Paris 4: 149. 1844.

Type locality: Guiana.

Distribution: British Guiana [Jenman 3932; Abraham 150;

Gleason 748; La Cruz 1178], Brazil

5. Dimorphandra macrostachya Benth. Journ. Bot. Hook. 2: 101. 1840.

Type locality: Mount Raraima, British Guiana.

Distribution: Mt. Roraima, British Guiana [Jenman 39]

6. Dimorphandra unijuga Tulasne, Arch. Mus. Paris 4: 185. 1844.

Type locality: Brazil.

Distribution: Rio Negro, Venezuela (~~ex Pittier~~) Brazil.

Note. Not in New York Herbarium.

7. Dimorphandra vernicosa Spruce; Benth. in Mart. Fl. Bras. 15²:

249. 1870.

Type locality: San Carlos, Venezuela.

Distribution: Venezuela and northern Brazil (~~ex Benth~~)

Illustration: Benth. loc. cit. pl. 66.

8. Dimorphandra pennigera Tulasne, Arch. Mus. Paris 4: 187. 1844.

Type locality: Brazil.

Distribution: Upper Amazon, Venezuela (~~ex Pittier~~)

Note: ~~Not in New York Herbarium.~~

9. Dimorphandra ?

Tumatumari, British Guiana [Gleason 163]

10. Dimorphandra polyandra Benoist, Notul. Syst. 3: 272. 1916.

Type locality: Charvein, French Guiana.

Distribution: Known only from the type locality, and to me from description only.

11. Dimorphandra olivifera Triana & Planch.; Kunth,
 Bot. Crut. Amer. Bot. 1: 842, Hypomys. 1880
 Type locality: Panama
 Distribution: Colombia [Triana 4420] Panama
 [See 8 miles to Panama]

12. Dimorphandra Youngii Klein, Rec. Trav.
 Bot. Herb. 22: 410. 1926

Type locality: Panama

Distribution: Santa Fe, Panama, British
 Guiana

Poeppigia procera
Type & locality: *Poeppigia procera* Presl.
5. ~~Poeppigia in northern South America~~

22

1. Poeppigia procera Presl, Symb. Bot. 1: 16. 1830.

Poeppigia ferruginea Tulasne, Arch. Mus. Paris 4: 120. 1844.

Poeppigia excelsa A. Rich. Ess. Fl. Cub. 484. 1845.

Type locality: Cuba.

Distribution: Colombia [H. H. Smith 261]; (?) Venezuela (see Pittier). Cuba. Guerrero to El Salvador. Brazil.

Illustrations: Presl. loc. cit. pl. 8; Benth. in Mart. Fl. Bras. 15²: pl. 14; A. Rich, in Sagra, Hist. Cub. pl. 39.

Campsandra Hook.
of the species: - *Campsandra* comosa Hook.

23

6 *Campsandra* in northern South America

1. *Campsandra comosa* Benth. Journ. Bot. Hook. 2: 93. 1840.

Type locality: British Guiana.

Distribution: British Guiana [Jenman 3915, 5253] Venezuela (ex Pittier)

2. *Campsandra laurifolia* Benth. Journ. Bot. Hook. 2: 94. 1840.

Campsandra rosea Poepp. & Endl. Nov. Gen. 3: 62. 1845.

Type locality: Rio Negro.

Distribution: Venezuela [Bailey 1153]. Brazil.

Illustrations: Poepp. & Endl. loc. cit. pl. 268; Benth. in Mart. Fl. Bras. 15²: pl. 15.

3. *Campsandra purinensis* Klein & Rec. Trav. Bot. Néerl. 22: 406. 1926.

Type locality: Purin area

Distribution: Guiana

Illustrations: Klein & loc. cit. p. 15.

Petero lobium Vogel
Type the var: *Petero lobium demedatum* Vogel
} Sclerolobium in northern South America

24

1. Sclerolobium guianense Benth. Kew Journ. Bot. 2: 237. 1850.

Type locality: Cayenne.

Distribution: French Guiana [Melinon]; British Guiana (ex
Bentham). Brazil. (found with 423)

2. Sclerolobium Melinonii Harms, Bot. Jahrb. 33: Beibl. 72: 24. 1903.

Type locality: French Guiana.

Distribution: French Guiana [Melinon]

3. Sclerolobium albiflorum R. Ben. Bull. Soc. Bot. France 66: 383. 1920.

Type locality: Charvein, French Guiana.

Distribution: French Guiana. Known to me only from description.

4. Sclerolobium odoratissimum Spruce; Benth. in Mart. Fl. Bras. 15²:
48. 1870.

Type locality: Rio Negro, near San Carlos, Venezuela.

Distribution: Known only from the type locality and to me from
description only.

5. Sclerolobium paraense Huber, Bol. Mus. Goeldi 6: 79. 1910.

Type locality: Between Para and Braganca, Brazil.

Distribution: French Guiana (according to Benoist). Brazil.
Known to me from description only.

Cynometra L 26

Type species: Cynometra cauliflora L

8 Cynometra in northern South America

1. Cynometra bauhiniaefolia Benth. Journ. Bot. Hook. 2: 99. 1840.

Type locality: British Guiana

Distribution: British Guiana

Note. Schomburgk 231 is in National Herbarium

2. Cynometra Hostmannii Tulasne, Arch. Mus. Paris 4: 180. 1844.

Type locality: Dutch Guiana.

Distribution: French Guiana [Melinon]; British Guiana [Jenman 1859]; Dutch Guiana [Hostmann & Keppler]

3. Cynometra Martiana (Hayne) Macbride, Contr. Gray Herb. 59: 19. 1919.

Trachylobium Martianum Hayne, Flora 10²: 744. 1827.

Cynometra Spruceana Benth. in Mart. Fl. Bras. 15: 247. 1870.

Type locality: Brazil.

Distribution: Rio Negro, Venezuela (ex Benthams, ex Pittier)

Brazil.

Illustrations: Benth, loc. cit. pl. 65; Hayne, loc. cit. pl. 7.

4. Cynometra Schottiana Hochr. Bull. N. Y. Bot. Gard. 6: 275. 1910.

Type locality: Atrato, Truando River, Colombia.

Distribution: Atrato, Colombia [Schott]

27
5. Cynometra trinitensis Oliver in Hook. Ic. Pl. 25: pl. 2443, 1896.

Type locality: Trinidad.

Distribution: Trinidad [Broadway; Britton 1183]

Illustration: Oliver, loc. cit.

Note. Both specimens from planted trees.

6. Cynometra marginata Benth. Journ. Bot. Hook. 2: 100. 1840.

Type locality: not cited.

Distribution: British Guiana [See Schomburgk 777]; French Guiana
(ex Benthams)

7. Cynometra parvifolia Tulasne, Arch. Mus. Paris 4: 181. 1844.

Type locality: Surinam (?)

Distribution: Dutch Guiana [Hostmann 204]

8. Cynometra fissicuspis Pittier, Arb. & Arb. Legum. 132. 1928.

Copaifera fissicuspis Pittier, Arb. & Arb. Venez. 26. 1923.

Type locality: Rio Lara, Zulia, Venezuela.

Distribution: Venezuela [Pittier 10933]

9. Cynometra sphaerocarpa Pittier, Arb. & Arb. Legum. 132. 1928.

Type locality: Coast of Venezuela - no specimen cited.

10. Cynometra (?)

Surinam [Schweinitz]

Note. Rodschiedia surinamensis

is said in Index Kewensis to be a Securidaea [Elsot^c]

Prioria Griseb. 29
Type species: *Prioria copaifera* Griseb.

9 ~~Prioria in northern South America~~

1. Prioria copaifera Griseb. Fl. Brit. W. Ind. 215. 1860.

Type locality: near Bath, Jamaica.

Distribution: Colombia [Dawes 888] . Panama Nicaragua
Jamaica.

30

Copaiva Jacq.
Type Locality: Copaiva H. B. K. in Jacq.
10 ~~Copaiva in northern South America~~

1. Copaiva officinalis Jacq. Enum. Pl. Carib. 21. 1760.

Copaifera officinalis L. Sp. Pl. ed. 2, 557. 1762.

Copaifera Jacquinii Desf. Mem. Mus. Paris 7: 376. 1821.

Copaifera Jacquiniana Don. Gen. Syst. 2: 455. 1832.

Type locality: Brazil (?)

Distribution: Venezuela [Mell; Teji^{ra}]

Illustrations: Jacq. Sel. Stirp. Am. pl. 86; Lam. Ill. pl. 342.

Note. See Pittier's description, Arb. & Arb. Legum. 133.

2. Copaiva venezuelensis (Harms & Pittier)

Copaifera venezuelensis Harms & Pittier, ^{Pittier} Arb. & Arb. Venez. 93.
1927.

Type locality: Rio Portugueso, Venezuela.

Distribution: Venezuela [Pittier 10975, 10991; ? Bailey 1423;
Broadway 308].

3. Copaiva guianensis (Desf.)

Copaifera guianensis Desf. Mem. Mus. Paris 7: 376. 1821.

Type locality: Rio Negro, Guiana.

Distribution: French Guiana; Dutch Guiana [Hostmann 264] Brazil.

Illustrations: Desf. loc. cit. pl. 13; Hayne, Arzn. 10: pl. 13.

31
4. Copaiva pubiflora (Benth.)

Copaifera pubiflora Benth. Journ. Bot. Hook. 2: 101. 1840.
Copaifera Martii pubiflora Benth. in Mart. Fl. Bras. 15²: 244.
1870.

Type locality: British Guiana.

Distribution: British Guiana (ex Benth). Brazil.

Note. Co-type in National Herbarium.

5. Copaiva Langsdorffii (Desf.)

Copaifera Langsdorffii Desf. Mem. Mus. Paris 7: 377. 1821.

Type locality: Brazil.

Distribution: Venezuela (Tagera 77 in National Herbarium, ex
Rose in litt). Not listed by Pittier. Brazil.

6. Copaiva ?

British Guiana [Jenman 2156]. Obtained from Trinidad - Leaflets
elliptic, rounded.

7. Copaiva caninae (Hornem)

Copaifera caninae Hornem, Repert. Pl. Norv.
24: 210. 1928.

Type locality
Sta. Isabel de Kungia, Santa Marta, Colombia
(Arnold Schultze 608)

Distribution: Known to me only from description
[No specimen at Washington, Oct. 1932]

Apalatoa Aubl
Type species: *Apalatoa spicata Aubl*

32

// ~~Apalatoa in northern South America~~

1. Apalatoa glaberrima (Steud.) Taubert, Bot. Centrabl. 47: 394. 1891.

Hirtella glaberrima Steud. Flora 26: 761. 1843.

Crudya obliqua Griseb. Fl. Brit. W. Ind. 216. 1860.

Crudya glaberrima Macbride, Contr. Gray Herb. 59: 20. 1919.

Type locality: Surinam.

Distribution: Tobago [Broadway 3794; Eggers 5738]; Trinidad [Trin. Herb. 449, 7237; Britton 2888]; French Guiana [Melinon]; Dutch Guiana (ex Benthams); Venezuela (Orinoco, ex Pittier); British Guiana [Schomburgk 841; Jenman 3778].

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 62.

2. Apalatoa spicata Aubl. Pl. Guian. 1: 383. 1775.

Apalatoa guianensis Lam. Encycl. 1: 208. 1783.

Crudia Schreberi Gmel. Syst. 674. 1796.

Crudia bracteata Benth. Journ. Bot. Hook. 2: 101. 1840.

Crudia spicata Willd. Sp. Pl. 2: 539. 1899.

Type locality: French Guiana.

Distribution: French Guiana (ex Aubl.); Dutch Guiana [Kegel 454]; British Guiana (ex Benthams)

Illustration: Aubl. loc. cit. pl. 147.

3. Apalatoa tomentosa (Aubl.) Taubert, Bot. Centralb. 47: 394. 1891.

Parivoa tomentosa Aubl. Pl. Guian. 2: 759. 1775.

Crudia Parivoa DC. Prodr. 2: 520. 1825.

Dimorpha tomentosa Willd. Sp. Pl. 3: 971. 1800.

Type locality: French Guiana.

Distribution: Known to me only from description and illustration.

Illustration: Aubl. loc. cit. pl. 304.

4. Apalatoa pubescens (Spruce) Taubert, Bot. Centralb. 47: 394. 1891.

Crudia pubescens Spruce; Mart. Fl. Bras. 15²: 240. 1870.

Type locality: Santarem, Amazon River, Brazil.

Distribution: French Guiana [from Herb. Jussieu] Brazil.

5. Apalatoa aromatica (Aubl.) Taubert, Bot. Centralb. 47: 394. 1891.

Touchiroa aromatica Aubl. Pl. Guian. 1: 385. 1775.

Crudia aromatica Willd. Sp. Pl. 2: 540. 1799.

Type locality: Forests of Guiana.

Distribution: Known to me only from description and illustration.

Illustration: Aubl. loc. cit. pl. 148.

6. Apalatoa (?) falcata (Kl.)

Crudia falcata Kl. in Schomb. Faun. & Fl. Guian. 1210. Hyponym
1848.

Type locality: River-banks, British Guiana.

Distribution: Known to me from description only.

7. Apalatoa oblonga (Benth.) Taubert, Bot. Centralb. 47: 394. 1891.

Crudya oblonga Benth. Bot. Voy. Sulph. 89. 1844.

Type locality: Cayenne. *at least*

Distribution: Known to me only from description.

Hymenaea C
Type species: *Hymenaea courbaril* L

95

12. *Hymenaea* in northern South America

1. *Hymenaea courbaril* L. Sp. Pl. 1192. 1753.

Type locality: Brazil.

Distribution: Tobago [Broadway 3534] French Guiana [Broadway 574, 824]; Venezuela [Rusby & Squires 203, 204, 205]; Colombia [H. H. Smith 2027] Bolivia. Brazil (?) Jamaica. Hispaniola; Porto Rico to Tortola. Lesser Antilles.

Illustrations: Gaertn. Fr. & Sem. pl. 145; Descourt. Fl. Ant. pl. 359; Cook & Collins, Contr. U. S. Nat. Herb. 8: pl. 41; Standley, Contr. U. S. Nat. Herb. 27: pl. 33; Hayne, Arzn. 11: pl. 10.

2. *Hymenaea multiloba* Kleink. Rec. Trav. Bot. Neerl. 22: 405. 1926.

Type locality: Surinam.

Distribution: Dutch Guiana

Note: Known to me from description only

[See Broadway 574, 824 under *courbaril*]

3. *Hymenaea davisii* Sandwith, Kew Bull. 1931: 366. 1931

Type locality: Morima Creeke, Essequibo River, British Guiana

Distribution: Essequibo River

12a. Pel to gyne

1. P. tuberosa R. & P.

Colombia (Venezuela) Venezuela, British Guiana

Peltogyne Vogel (36)
Type species: Peltogyne discolor Vogel

13. Peltogyne in northern South America

1. Peltogyne porphyrocordia Griseb.; Benth in Mart, Fl. Bras. 15²: 234.
1870.

Type locality: Trinidad.

Distribution: Trinidad [Dannouse; Britton & Hazen 212, 1027]

2. Peltogyne paniculata Benth. Journ. Bot. Hook. 2: 96. 1840.

Type locality: near the Rio Negro, British Guiana.

Distribution: British Guiana [Persaud 168]; Venezuela [Spruce
3260] Brazil.

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 60, f. 1.

3. Peltogyne parvifolia Spruce; Benth. in Mart. Fl. Bras. 15²: 233.
1870.

Type locality: Rio Pocimini, Venezuela.

Distribution: ~~known to me from description only.~~ *known only from type locality (Spruce 1870)*

4. Peltogyne venosa (Vahl) Benth. in Mart. Fl. Bras. 15²: 233. 1870.

Hymenaea venosa Vahl, Eclog. 2: 31. 1798.

Type locality: Cayenne.

Distribution: French Guiana [Wachenheim 1]; Dutch Guiana (ex
Bentham)

37
5. Peltogyne pubescens Benth. Journ. Bot. Hook. 2: 96. 1840.

Type locality: British Guiana.

Distribution: British Guiana [Schomburgk 38; Jenman 6579;
Persaud 85]; Venezuela [Pittier 10973]

6. Peltogyne floribunda (H.B.K.) Pittier, Arb. & Arb. Legum. 140. 1928.

Hymenaea floribunda H.B.K. Nov. Gen. 6: 233. 1824.

Type locality: between Trapiche de Don Felix Ferraras and
Angastura [Venezuela]

Distribution: Known to me from description and illustration
only.

Illustration: H.B.K. loc. cit. pl. 567.

Note. Bentham suggests that this is the same as P.

porphyrocordia Griseb., and Pittier makes the same comment.

Tachigalia Aubl.
Type species: Tachigalia paniculata Aubl. 38

14 Tachigalia in northern South America

1. Tachigalia Rusbyi Harms, Bot. Jahrb. 33: Beibl. 72. 20. 1903.

Type locality: Orinoco.

Distribution: Venezuela [Rusby & Squires 127]

2. Tachigalia paniculata Aubl. Pl. Guian. 1: 374. 1775.

Tachigalia angustifolia Miquel, Stirp. Surin. 13. 1850.

Tachigalia sericea Tulasne, Arch. Mus. Paris 4: 163. 1844.

Tachigalia eriocalyx Tulasne, Arch. Mus. Paris 4: 164. 1844.

Type locality: French Guiana.

Distribution: French Guiana (ex Aublet); Dutch Guiana (ex Benthams); British Guiana [Schomburgk 914] Brazil.

Illustration: Aubl. loc. cit. pl. 143; Miquel loc. cit. pl. 3.

Note. Recorded by Benoist from Gourdonville, French Guiana.

3. Tachigalia pubiflora Benth. Journ. Bot. Hook. 2: 94. 1840.

Type locality: Essequibo River, British Guiana.

Distribution: British Guiana [Persaud 24; Gleason 416; Leng 267, 293; Abraham 253; Jenman 5824]

Note. Distinct from T. paniculata

39

4. (?) Tachigalia glauca Tulasne, Arch. Mus. Paris 4: 165. 1844.

Type locality: French Guiana.

Distribution: Known to us only from description.

5 (?) Tachigalia Richardiana Tulasne, Arch. Mus. Paris 4: 166. 1844.

Distribution: Known to us only from description.

Tamarindus L
Type species: *Tamarindus indica* L

40

15 ~~Tamarindus in northern South America~~

1. Tamarindus indica L. Sp. Pl. 34. 1753.

Tamarindus occidentalis Gaertn. Fr. & Sem. 2: 310.

Tamarindus officinalis Hook. Bot. Mag. pl. 4563.

Type locality: India.

Distribution: Tobago [Broadway 3822]; Trinidad (ex Grisebach);
Margarita [Miller & Johnston 65]; Curaçao [Killip & Smith 21041];
Dutch Guiana [Kegel]; Venezuela [Kuntze; Stevens]; Colombia [Lehmann
4643, 8658; Holton 979; André 1828, K. 411] Florida; West Indies.
Mexico and Central America. Brazil. Bolivia. Native of tropical
Asia.

Illustrations: Jacq. Ann. pl. 10; Hayne, Arzn. 9: pl. 41; Gaertn.
loc. cit. pl. 146; Hook, loc. cit.

Eperua Aubl
Type species: *Eperua falcata* Aubl.

41

16. *Eperua* in northern South America

1. *Eperua leucantha* Benth. in Mart. Fl. Bras. 15²: 225. 1870.

Type locality: Upper Rio Negro, Venezuela.

Distribution: Known to me from description only.

2. *Eperua Schomburgkiana* Benth. in Mart. Fl. Bras. 15²: 226. 1870.

Type locality: British Guiana.

Distribution: British Guiana [Jenman 6269; Gleason 394

(= Schomburgk 317, type); Persaud 14; La Cruz 1704; Läng 413];

Venezuela (ex Pittier) (?) Dutch Guiana [Kegel 272]

[Probably *E. grandiflora* Nees &
Pav. var. *tr.*
[In the species wrongly introduced?]

3. *Eperua falcata* Aubl. Pl. Guian. 1: 369. 1775.

Dimorpha falcata Smith in Rees' Cyclop. no. 3, 1819.

Panzeria falcata Willd. Sp. Pl. 2: 540. 1799

Type locality: French Guiana.

Distribution: French Guiana [Mélinon]; Dutch Guiana

[Schweinitz]; British Guiana [Bartlett 8150; Jenman 4095;

La Cruz 1373; Läng 276]

Illustration: Aubl. loc. cit. pl. 142.

42
4. Eperua Jenmani Oliver in Hook. Ic. 20: pl. 1955. 1891.

Type locality: British Guiana.

Distribution: British Guiana [Jenman 573; Gleason 837]

Illustration: Hook. Ic. pl. 1955.

5. Eperua grandiflora (Aubl.) Benth. in Mart. Fl. Bras. 15²: 226. 1870.

Pariova grandiflora Aubl. Pl. Guian. 2: 757. 1775.

Dimorpha grandiflora Willd. Sp. Pl. 3: 971. 1800.

Type locality: French Guiana.

Distribution: ~~Known to me only from description and illustration.~~
French Guiana; British Guiana

[See Jenman, British Guiana 2482]

- Below the 3rd Gleason 1704

Illustration: Aubl. loc. cit. pl. 303.

6. Eperua rubiginosa Miquel, Stirp. Surin 12. 1850.

Type locality: Surinam.

Distribution: Known to me only from description. Recorded
by Benoist from French Guiana.

See Surinam spec.

7. Eperua caudata Britton, provisional

Butukari, British Guiana [Gleason 718]

see Jenman

1844, rep. there

not Epiphyas - see dissection

8. ~~Eperua recurva~~ Britton, provisional

Upper Mazaruni River, British Guiana. [Leng 188]; ? Butukari,
British Guiana [Gleason 726]

по А. С. Зарва.

9. *Eperua elliptica* Britton, provisional

Kumpung, Upper Mazaruni River, British Guiana [Long 312]

10. *Eperua multiflora* Britton, provisional

Ebororabo Creek, British Guiana. [Abraham 133]

has written

133
See French's Place

11. ~~Eperua barticana~~ Britton, provisional

Southwest of Bartica, British Guiana [Linder 132]

~~with drawer = palcat~~

12. *Eperua mixta* Britton, provisional

British Guiana [La Cruz, 2172 type; 2091; Jenman 5257; Persaud
166; Gleason 332, 412]

= Po Tuan Hung Ki an

13. ~~Eperua~~ ?

Kamakusa, Upper Mazaruni River, British Guiana [Leng 70]

l.c

14. Eperua ^{1/2}Kourouensis Benoist, ^NBotul. Syst. 3: 273. 1916.

Type locality: Kourou River, Gourdonville, French Guiana.

Distribution: Known only from the type locality and to me from description only.

X 1. Vouapa bifolia Aubl. Pl. Guian. 1: 25. 1775.

Macrolobium hymenoides Willd. Sp. Pl. 1: 186. 1799.

Macrolobium bifolium Pers. Syn. 1: 39. 1805.

Macrolobium stamineum G. F. W. Meyer, Prim. Fl. Esseq. 18. 1818.

Vouapa staminea DC. Prodr. 2: 511. 1825.

Macrolobium elegans Miquel, Ann. Sci. Nat. III 1: 40. 1844.

Macrolobium Vuapa J. G. Gmelin, Syst. 93. 1791.

Type locality: French Guiana.

Distribution: French Guiana [Melinon 420]; Dutch Guiana [Miquel];
British Guiana [Schomburgk 10; Jenman 5245; Hitchcock 17243; Leng 206;
Persaud 34; Gleason 934; 406; La Cruz 1126, 1658, 1799, 2249, 2273,
2376, 2643, 2826, 3228, 4016, 4361; Venezuela [Bond, Gillin & Brown
215]

2. Vouapa chrysostachya Miquel, Stirp. Surin. 11. 1850.

Macrolobium chrysostachyum Benth. in Mart. Fl. Bras. 15²: 220.
1870.

Vouapa angustifolia Benth. Kew Journ. Bot. 2: 239. 1850.

Type locality: Surinam.

Distribution: Dutch Guiana (ex Miquel); British Guiana (ex
Bentham). Brazil.

Note. Not in New York Herbarium, May, 1923.

3. Vouapa florida (Karst.) Kuntze, Rev. Gen. Pl. 213, 1891.

Macrolobium floridum Karst. Fl. Col. 1: 151. 1861.

Type locality: Puerto Cabello, Venezuela

Distribution: Known to me only from description and illustration.

Illustration: Karst. loc. cit. pl. 75.

46
4. Vouapa Simara Aubl. Pl. Guian. 1: 27. 1775.

Macrolobium sphaerocarpum Willd. Sp. Pl. 1: 186. 1797.

Macrolobium Simara J. F. Gmelin, Syst. 93. 1791.

Type locality: Couron, French Guiana.

Distribution: Known to me only from description and illustration.

Illustration: Aubl. loc. cit. pl. 8.

5. Vouapa discolor (Benth.) Taubert, Bot. Centralb. 47: 393. 1891.

Macrolobium discolor Benth. in Mart. Fl. Bras. 15²: 222. 1870.

Type locality: Upper Rio Negro, Venezuela.

Distribution: ~~Known only from the type locality and to me from description only.~~ Esmeralda, Venezuela [Date 289]

6. Vouapa multijuga (DC.) Taubert in Engl. & Prantl. Natfl. Fam. 3³: 142. 1894.

Outea multijuga DC. Prodr. 2: 510. 1825.

Macrolobium multijugum Benth. in Mart. Fl. Bras. 15²: 222. 1870.

Type locality: French Guiana.

Distribution: French Guiana (ex DC); Dutch Guiana [Hostmann 76]; British Guiana [Jenman 3695; Joseph]

Illustration: Benth. loc. cit. pl. 57, f. 1.

47

7. Vouapa venulosa (Benth.) Taubert, Bot. Centralb. 47: 394. 1891.

Macrolobium venulosum Benth. in Mart. Fl. Bras. 15²: 223. 1870.

Type locality: San Carlos, Rio Negro, Venezuela.

Distribution: Known only from the type locality ~~and to me from description only.~~

8. Vouapa gracilis (Spruce) Taubert, Bot. Centralb. 47: 393. 1891.

Macrolobium gracile Spruce; Benth. in Mart. Fl. Bras. 15²: 223.
1870.

Type locality: Naupes, northern Brazil.

Distribution: Rio Pacimonte, Venezuela (ex Bentham, ex Pittier). Brazil.

Note. ~~Known to me from description only.~~

9. Vouapa trinitensis (Urban)

Macrolobium trinitense Urban, Symb. Ant. 1: 314. 1899.

Type locality: Tocuche, Trinidad.

Distribution: Trinidad [Trin. Herb. 5216]

48

10. Vouapa acaciaefolium^a (Benth.) Baill. Hist. Pl. 2: 109. 1870.

Ontea acaciaefolia Benth. Journ. Bot. Hook. 2: 94. 1840.

Macrolobium acaciaefolium Benth. in Mart. Fl. Bras. 15²: 224. 1870.

Type locality: On the Essequibo and Rapunoony, British Guiana.

Distribution: British Guiana [Schomburgk 7172; Persaud 163;
Gleason 874; La Cruz 993, 1095, 1137, 1925, 2583, 3738, 4373]

Note. La Cruz specimens possibly include two species.

11. Vouapa taxifolia (Spruce) Taubert, Bot. Centralb. 47: 394. 1891.

Macrolobium taxifolium Spruce; Benth. in Mart. Fl. Bras. 15²:
224. 1870.

Type locality: Guainia, upper Rio Negro, Venezuela.

Distribution: Known only from the type locality ~~and to me only~~
~~from description and illustration.~~

Illustration: Benth. loc. cit. pl. 57, f. 2.

12. Vouapa flexuosa (Spruce) Taubert, Bot. Centralb. 47: 394. 1891.

Macrolobium flexuosum Spruce; Benth. in Mart. Fl. Bras. 15²:
223. 1870.

M. flexuosum molle Benth. loc. cit. 1870.

Type locality: Rio Uaupes, northern Brazil.

Distribution: Rio Negro, Venezuela (~~ex Benth.~~, ~~ex Pittier~~).
~~Known to me from description only.~~

49
13. Vouapa pendula (Willd.) Taubert, Bot. Centralb. 47: 394. 1891.

Macrolobium pendulum Willd.; Vogel, Linnaea 11: 412. 1837.

Macrolobium racemigerum Tulasne, Arch. Mus. Paris 4: 174. 1844.

Vouapa racemigera Kuntze, Rev. Gen. Pl. 213. 1891.

Type locality: ^

Distribution: French Guiana (ex Benthams). Brazil.

14. Vouapa guianensis (Aubl.) Taubert, Bot. Centralb. 47: 394. 1891.

Outea guianensis Aubl. Pl. Guian 1: 28. 1775.

Macrolobium pinnatum Willd. Sp. Pl. 1: 186. 1797.

Macrolobium Utea J. G. Gmelin, Syst. 93. 1791.

Type locality: French Guiana.

Distribution: Known to me only from description and illustration.

Illustration: Aubl. loc. cit. pl. 9.

15 Vouapa stenosphon (Harms)

Macrolobium stenosphon Harms, Repert. 3: 51. 1906.

Type locality: Timbiqui and Micay Rivers, Colombia.

Distribution: Colombia [Lehmann 8987, co-type; Triana 4418]

16. Vouapa Jenmani Gleason, ined.

British Guiana [Jenman 4076 type; La Cruz 2534]

17. Vouapa potaroana Britton, provisional

Pataro River, Tumatumari, British Guiana [Gleason 335]

Desc. written

18. Vouapa (?)

Demarara River, British Guiana [Jenman 4283]

Spec. sent by Gleason to New York, June 1912

19. Vouapa ?

Upper Rupununi River, British Guiana [La Cruz 1480, fruiting specimen]

20. Vouapa ? colombiana Britton Quercus ?

Choco, Colombia, [Triana 4419] Desc. written

21. Vouapa imperfecta (Gleason)
Mesoplochium imperfectum Gleason, Bull. Torrey Club, 58: 371, 1931.

Type locality: Barro Colorado, [Venezuela]

Distribution: northern Venezuela and northern Brazil.

22. Vouapa retusa (Hutchins)
Mesoplochium retusum Hutchins, Bot. Mus. Goeldi 7: 200, 1913

Type locality: Pierrita de la Paria, Cajete

[Venezuela]

Distribution: known only from the type locality [Venezuela]

Paloue Aubl.
Type species: *Paloue guianensis* Aubl. 51

18 *Paloue* in northern South America

1. *Paloue guianensis* Aubl. Pl. Guian 1: 365. 1775.

Type locality: French Guiana.

Distribution: French Guiana [Melinon 61, 77]

Illustration: Aubl. loc. cit. pl. 141.

2. *Paloue latisiliqua* Britton, provisional

= *guianensis*

British Guiana, Kurupung, Upper Mazurini River [Leng 292, type]

See Leng 382. See Gleason 453.

Note. This genus? See fruit shown in Aublet's plate 141.

Heterostemon Desf.
Type species: *Heterostemon mimosioides* Desf. 52

19 *Heterostemon* in northern South America

1. *Heterostemon mimosioides* Desf. Mem. Mus. Paris 4: 249. 1818.

Type locality: Brazil.

Distribution: British Guiana, [Schomburgk 896] Venezuela
Ernst, ex Rose) Brazil.

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 55, f. 2;
Desf. loc. cit. pl. 12.

2. *Heterostemon ellipticus* Mart.; Benth. in Mart. Fl. Bras. 15²:
215. 1870.

Type locality: Lake Ega, Alto Amazonas, Brazil.

Distribution: Rio Negro, Venezuela ^{and northern} (ex Benth. ~~ex Pittier~~)
Brazil.

Illustration: Benth. loc. cit. pl. 55, f. 1.

Note. Not in New York Herbarium, May, 1928.

Heterostemon imajifolius Vaud with, Kew Bull.

1928: 375. 1928.

Type locality: Karama River, Magaruni River, British Guiana
[Schomburgk 410]

Distribution: Known only from the type locality

3. *Heterostemon potaroanus* Britton, provisional

Potaro River, British Guiana [Gleason 179 type; 212, 243;
Jenman 7407] (*Heterostemon*)

Heterostemon magarunensis Vaud with, Kew
Bull. 1928: 374. 1928.

Type locality: Karama River, Magaruni River,
British Guiana (Schomburgk 410)

Distribution: Known only from the type locality

4. Heterostemon subcoriaceus Britton, provisional
Kama Kusa, Upper Mazaruni River, British Guiana [Leng 23]

withdrawn

5. Heterostemon Lengii Britton, provisional
Kama Kusa, Upper Mazaruni River, British Guiana, [Leng 14 type;

138]

withdrawn

4. Heterostemma Vageleri Harms, Notizbl. Bot. Gart.
Berlin 9: 291, 1925
Type locality: Nueva Fortuna, Casare, Colombia
Reserve to us from descriptive only

Elizabetha Schomburgk
Type species: Elizabetha princeps Schomburgk 54

20 Elizabetha in northern South America

1. Elizabetha princeps Schomburgk; Benth. Journ. Bot. Hook. 2: 92.
1840.

Type locality: Mount Roraima, British Guiana.

Distribution: known only from the type locality and to me from
description only.

2. Elizabetha coccinea Schomburgk; Benth. Journ. Bot. Hook. 2: 92.
1840.

Type locality: British Guiana.

Distribution: known to me from description only.

3. Elizabetha ouk-kei Yun-tsu, Bot. Mus. Goeldi
7: 201, 1913.

Type locality: Rio Papava, Caguetá

[Veneçuela]
Dist. to locality: Known only from the
type locality, and to me from the
description only.

Brownea Jacq.
Type species: *Brownea coccinea* Jacq.

55

21 Brownea in northern South America

[Hermesias Loebl. is a hyponym]

1. Brownea grandiceps Jacq. Coll. 287. 1789.

Hermesias grandiceps Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality:

Distribution: Venezuela [Pittier 5969]

Illustrations: Jacq. Fragm. pl. 22, 23.

✓ 2. Brownea ariza Benth. Pl. Hartw. 171. 1845.

Hermesias ariza Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Guaduas, Bogota, Colombia.

Distribution: Colombia [André 1063, 1809] *Colombia (Benth 1845)*

Illustration: Pittier, Contr. U. S. Nat. Herb. 18: pl. 59, 60,
61, 62 (perhaps not all of this species
known in Colombia)

3. Brownea leucantha Jacq. Fragm. 287. 1789.

Hermesias leucantha Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Caracas, Venezuela.

Distribution: *See Pittier*

Illustrations: Jacq. Coll. pl. 20, 21.

- 56
- ✓ 4. *Brownea aroensis* Pittier, Contr. U. S. Nat. Herb. 18: 162. 1916.

Brownea Guarba Pittier, loc. cit. 1916.

Type locality: Palmasola, Aroa River, Lara, Venezuela.

Distribution: Venezuela [Pittier 6367 ; Mell.] *Col. - Herbar. 20917*

Note. Pittier, Arb. & Arb. Veez. 147, 148 united the species
under the name aroensis.

5. *Brownea coccinea* Jacq. Enum. 6, 26. 1760.

Hermesias coccinea Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Zauca, Venezuela.

Colombia - Venezuela - Guayana - Surinam - Guayana Francesa
Distribution: Venezuela [Pittier 8777; Saer 134]

Illustration: Jacq. Stirp. Am. pl. 121.

6. *Brownea latifolia* Jacq. Fragm. 25. 1809.

Brownea speciosa Kth. G. Guss. Pl. Brit. W. I. 212, 1860
Type locality: Caracas, Venezuela.

Distribution: Venezuela [Pittier 6054]

Illustration: Jacq. loc. cit. pl. 17.

7. *Brownea capitellata* Jacq. Fragm. 26. 1809.

Hermesias capitellata Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Caracas, Venezuela.

Distribution: Venezuela [Pittier 12164]

Illustrations: Jacq. loc. cit. pl. 18, 19.

59
✓ 8. Brownea macrophylla Linden, Cat. 18: 11. 1863.

Type locality: Antioquia, Colombia.

Distribution: *Medellin (Prov 107)* Colombia (ex Linden). Panama.

Illustration: Gard. Chron. 1873: f. 149.

58
✓ 9. Brownea Rosa del Monte Berg. Phil. Trans. 63: 174. 1773.

Hermesias Rosa Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Porto Bello, Panama.

Distribution: Colombia [Schott] Panama. *Brownea 4422*

Illustration: Berg. loc. cit. pl. 8, 9.

10. Brownea Birschellii Hook.f. Bot. Mag. pl. 5998, 1872.

Type locality: La Guayra, Venezuela.

Distribution: known to me only from description and
illustration of the type.

Illustration: Bot. Mag. pl. 5998.

Note. Upper leaflets oblanceolate. Species not taken up by
Pittier.

11. Brownea racemosa Jacq. Fragn. 26. 1809.

Hermesias racemosa Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Caracas, Venezuela.

Distribution: Known to me from description and illustration
only.

Illustrations: Jacq. loc. cit. pl. 16.

1110 n
o
Killip

Mimosaceae
o
Caesalpinjiaceae
of
Columbia

Letter up
back-bone

Interleave:-
with plain
paper \$2.50

FLORA OF THE MID-ATLANTIC STATES

COLLECTED BY M. S. BAXTER

1921

59
12. Brownea speciosa Rchb.; Griseb. Fl. Brit. W. I. 212. 1860.

(?) Brownea guyanensis Klotzsch; Schomb. Faun. & Fl. Guy. 1209
hyponym.

Hermesias speciosa Kuntze, Rev. Gen. Pl. 191. 1891.

Type locality: Trinidad.

Distribution: Tobago [Broadway 3532]; Trinidad [Broadway
9794; Kuntze 830; Britton 2160] British Guiana [La Cruz
1101, 1254, 2442, 4506] Venezuela [Broadway 502; Bond,
Gilllin & Brown 257, Rusby & Squires 23]

= latifolia -

✓ 13. Brownea bolivarensis Pittier, Contr. U. S. Nat. Herb. 20: 111.
1918.

Type locality: between Norosi and Tiquisto, Bolivar, Colombia.

Distribution: Known to me only from description [See Pennell
4170.] Killip to say -

Note. The type is Curran 142. - Nat. Herb.

✓ 14. Brownea longipedicellata Huber, Bot. Mus. Goeldi 7: 293. 1913.

Type locality: Japuri River (Caqueta), southeastern Colombia.

Distribution: Known only from the type locality and to me from
description only.

the type is at Washington - Photo to come

15. Brownea neglecta (Taubert)

Hermesias neglecta Taubert in Engler & Prantl, Nat. Pflf. 3³:

146. 1892.

Type locality: presumably American, studied from greenhouse plant.

Distribution: unknown.

Illustration: Taubert, loc. cit. f. 83.

Note. Illustration shows flowers only; no description.

16. Brownea canescens Britton, provisional

Guaremales, Venezuela [Pittier 8778]

17. Brownea lateralis Britton, provisional

Lower Yaracay, Venezuela [Pittier 12106]

ref by Pittier to latifolia

Note: Flowers on the side of twig.

18. Brownea trinitensis Britton, provisional

Trinidad Teteran Bay, [Britton 495, type]

with drawings =
latifolia

19. Brownea confusa Britton, provisional

Santa Marta, Colombia [H. H. Smith 931]

= ariza

Note. Referred by Pittier to B. ariza Benth.

61
20. Brownea (?) multifoliola Britton, provisional
Darien, Colombia [Dawe 833]

21. Brownea alternifoliola Britton, provisional
La Esmeralda, Santander, Colombia [Killip & Smith 20937]

✓ 22. Brownea Holtoni Britton, provisional
Honda, Colombia [Holton, Apr. 26, 1854]

23. Brownea Toroana Britton, provisional
Vicinity of Medellin, Colombia [Toro 107]

✓ 24. Brownea parviflora Britton, provisional
Morrocoquiel, Rio Sinw, Bolivar, Colombia [Pennell 4698]

25 (?) Brownea

Near Peripa, Ecuador [André K 997]

Note. Foliage only.

62

26. Brownea (?) Broadwayi Britton, provisional
Aricagua, Venezuela [Broadway 554]

Dialium L.
Type species: *Dialium indurum* L.

63

52 ~~Dialium in northern South America~~

1. Dialium guianense (Aubl.) Steud. Nom. ed. 2, 1: 497. 1840.

Arouna guianensis Aubl. Pl. Guian. 1: 16. 1775.

Aruna divaricata Willd. Pl. Pl. 1: 49. 1797.

Dialium divaricatum Vahl, Enum. 1: 302. 1804.

Type locality: French Guiana.

Distribution: French Guiana [Leprieur; Broadway 847];

Venezuela [Pittier 10972] Panama to Guatemala. Brazil.

Illustrations: Aubl. loc. cit. pl. 5; Benth. in Mart. Fl. Bras.

15²: pl. 47.

Colombia [Curran 60]

Neoapuleia Britton & Rose
Type species: Apuleia praecox Mart.

64

13 Neoapuleia in northern South America

[Apuleia Mart. 1837. Not Gaertn. 1791]

[Zenkeria Arnott 1838. Not Trin. 1837]

1. Neoapuleia praecox (Mart.) Britton

Apuleia praecox Mart. Herb. Fl. Bras. 123. 1837.

Zenkeria dalbergioides Arnott, Mag. Zool. Bot. 2: 548. 1838.

Apuleia polygama Allem. Trab. Soc. Vell. 56.

Leptolobium (?) leiocarpum Vogel, Linnaea 11: 393. 1837. ^

Type locality: Corcovado, Rio de Janeiro, Brazil.

Distribution: Venezuela [Pittier 11725] Brazil.

Illustration: Benth. in Mart. Fl. Bras. ^{52.} pl. 46.

Note. Venezuela plant has blunter leaflets than the Brazilian.

Chamaecrista *Chamaecrista*
Type species: *Cassia Chamaecrista* L.

65

24 *Chamaecrista* in northern South America

1. *Chamaecrista diphylla* (L.) Greene, *Pittonia* 4: 28. 1890.

Cassia diphylla L. Sp. Pl. 376. 1753.

Type locality: India [apparently in error]

Distribution: French Guiana [Melinon]. Cuba. Hispaniola, Porto Rico, St. Kitts (ex Grisebach). St. Vincent (ex Urban). Vera Cruz to Panama. Brazil.

Illustration: Cav. Ic. pl. 600.

Note. Not in N. Y. Herbarium from Colombia, Venezuela or British Guiana.

Not at Washington from Columbia, Oct. 1932

2. *Chamaecrista cultrifolia* (H.B.K.)

Cassia cultrifolia H.B.K. Nov. Gen. 6: 363. 1824.

Type locality: Orinoco River.

Distribution: Guiana (ex Benth); Venezuela [Stevens; Pittier 9425] Colombia (ex Benth) Brazil.

Not at Washington from Columbia Oct. 1932

3. *Chamaecrista tetraphylla* (Desv.)

Cassia tetraphylla Desv. Journ. Bot. 3: 72. 1814. Not Collad. 1816.

Cassia Desvauxii Collad. Hist. Cass. 131. 1816.

Cassia pulchra H.B.K. Nov. Gen. 6: 362. 1824.

? *Cassia Desvauxii brevipes* Benth. in Mart. Fl. Bras. 152: 157. 1870.

Type locality: Tropical America.

Distribution: British Guiana [La Cruz 2103, 2211] Colombia (ex Benth). Brazil.

Not at Washington from Columbia Oct. 1932

66

3a. Chamaecrista brevipes (DC.) Greene, Pittonia 4: 31. 1899.

Cassia brevipes DC. Collad. Hist. Cass. 119. 1816.

Type locality: Panama.

Distribution: [✓] *Andrés Bello [Tate 277]* Venezuela [Pittier 10552]; Panama. Costa Rica.

Illustration: Collad. loc. cit. pl. 9.

4. Chamaecrista Persoonii (Collad.) Greene, Pittonia 4: 31. 1899.

- (?) Cassia lanceolata Pers. Syn. 1: 456. 1805. Not Forsk.
Cassia uniflora Spreng. Neue Entd. 1: 291. Not Mill. 1768.
Cassia Persoonii Collad. Hist. Cass. 119. 1816.
Cassia ramosa Vogel, Syn. Cass. 55. 1837.
Cassia savannensis Miquel, Linnaea 18: 584. 1844.
Cassia uniflora ramosa Benth. in Mart. Fl. Bras. 15²: 158. 1870.
Cassia uniflora parvifolia Benth. Trans. Linn. Soc. 27: 568.
1871.

Type locality: Cayenne.

Distribution: French Guiana (ex Persoon; ex Benoist).

Dutch Guiana [Kegel; Hostmann 808; Samuels 481], British Guiana [Jenman 1681; 5168; Abraham 1; Tate 50]; Venezuela [Stevens]; Colombia (ex Benth). Brazil. *[Not at Washington from Columbia, Oct. 1912]*

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 43, f. 1.

5. Chamaecrista Rusbyi B. & R., ined.

Orinoco River, Venezuela [Rusby & Squires 275; Bailey 1378]

Handwritten notes:
H. a. Chamaecrista alticola Britton, ined. prov. -
Pavane near Roraima valley, among the trees
British Guiana, May, 1926, Alticola 538
C. alticola

67

Mule tree (H-GK)

6. Chamaecrista Smithiana Britton, provisional

Santander, Colombia Killip & Smith 15127 type; 15089, 19345]

Bruckneras

7. Chamaecrista Lehmannii, B. & R., ined.

Guagua, Colombia [Lehmann B. T. 1095]

Lehmannii

8. Chamaecrista Langsdorfii (Kunth) B. & R., ined.

Cassia Langsdorfii Kunth; Vogel, Syn. Cass. 55. 1837.

Type locality: Brazil.

Distribution: Venezuela (Orinoco, ex Benthams), Brazil.

9. Chamaecrista gracilis (Kunth) B. & R., ined.

Cassia gracilis Kunth, Mim. 120. 1819.

Type locality: Orinoco River, near San Borja.

Distribution: Known to me only from description and illustration.

Illustration: Kunth, loc. cit. pl. 36.

10. Chamaecrista calycioides (DC.) Greene, Pittonia 4: 32. 1899.

Cassia calycioides DC., Collad. Hist. Cass. 125. 1816.

Type locality: Cayenne.

Distribution: French Guiana (ex Colladon); Venezuela
[Pittier 7923, 7967, 9008, 11698]. Brazil. (ex Bentham)

Illustrations: Collad. loc. cit. pl. 20, f. B; Benth. in
Mart. Fl. Bras. 15²: pl. 43, f. 2.

11. Chamaecrista rotundifolia (Pers.) Greene, Pittonia 3: 41. 1899.

Cassia rotundifolia Pers. Syn. 1: 456. 1805.

Cassia bifoliolata DC.; Collad. Hist. Cass. 120. 1816.

Chamaecrista bifoliolata Greene, Pittonia 4: 31. 1899.

Type locality: South America.

Distribution: Guiana (ex Bentham); Venezuela [Stevens;
Pittier 8704]; Colombia (ex Bentham). Cuba. Sinaloa to Costa Rica.
Brazil. Bolivia.

Illustration: Collad. loc. cit. pl. 9.

Cassia latagualfolia HBK. Nov. Gen. 6: 163, 1824

69

12. Chamaecrista bauhiniaefolia (Kunth) *det. ined.*

Cassia bauhiniaefolia Kunth, Mim. 123. 1819.

~~Cassia fabaginaefolia H.B.K. Nov. Gen. 6: 363. 1824.~~

Cassia filipes Benth. Journ. Bot. Hook. 2: 81. 1840.

Cassia rotundifolia bauhiniaefolia Benth. in Mart. Fl. Bras. 15²:

162. 1870.

Type locality: Orinoco River near Carichana.

Distribution: Guiana (ex Bentham); Venezuela [Pittier 10592];
Colombia [Lehmann B. T. 1057] *d. J. 1113.*

Illustration: Kunth, loc. cit. pl. 37.

13. Chamaecrista Tagera (L.) Standley, Contr. U. S. Nat. Herb. 18;

104. 1914.

Cassia Tagera L. Sp. Pl. 376. 1753.

Cassia ciliaris Collad. Hist. Cass. 98. 1816.

Cassia Kunthiana C. & S. Linnaea 5: 598. 1830.

Type locality: India (presumably in error)

Distribution: Guiana (ex Bentham); Colombia (~~ex~~ Bentham).

Vera Cruz to Panama. Brazil.

14. Chamaecrista pilosa (L.) Greene, Pittonia 4: 28. 1899.

Cassia pilosa L. Syst. Nat. ed. 10, 1017. 1759. 1753.

Cassia emarginata Mill. Gard. Dict. ed. 8, no. 13. 1768. Not L. ^

Cassia Milleri Collad. Hist. Cass, 132. 1816.

Type locality: Not cited.

Distribution: Trinidad [Broadway 7398]; Venezuela [Grisol4
31]; Colombia [H. H. Smith 276; Pennell 1207] Guatemala. Jamaica.
Cuba.

15. Chamaecrista serpens (L.) Greene, Pittonia 4: 29. 1897.

Cassia serpens L. Syst. Nat. ed. 10, 1018. 1759.

Cassia prostrata H. & B.; Willd. Enum. 441. 1809.

Type locality: not cited.

Distribution: Guiana (ex Benth.); Venezuela [Stevens;
Pittier 9681, 10807] Colombia [H. H. Smith 67; ^{are 6, 790;} Pennell 2886, 12072;
Rusby & Pennell 1077] Jamaica. Cuba. Guatemala. Brazil. Paraguay.

16. Chamaecrista trichopoda (Benth.)

Cassia trichopoda Benth. in Mart. Fl. Bras. 15²: 163. 1870.

Type locality: Brazil [no type cited]

Distribution: Venezuela (Caracas, ex Benth.); Colombia
[H. H. Smith 709]. Brazil. Bolivia.

17. Chamaecrista supplex (Mart.) *b.c.h.*

Cassia supplex Mart.; Benth. in Mart. Fl. Bras. 15²: 163. 1870.

Type locality: Pernambuco, Brazil.

Distribution: Colombia [H. H. Smith 66] Brazil.

18. Chamaecrista Schlimii (Benth.) *b.c.h.*

Cassia Schlimii Benth. Trans. Linn. Soc. 27: 571. 1871.

Type locality: Ocaña, Colombia

Distribution: Colombia [Schlim 281, co-type] *herbarium 4009*

18a. Chamaecrista Pennellii B. & R., ined.

Between Fusagasuga and Pandi, Cundinamarca, Colombia [Pennell 2749] *des. written*

19. Chamaecrista colombiana B. & R., ined. = *Schlimii*

Buenvista, Bolivar, Colombia [Pennell 4009]

20. Chamaecrista tenella (H.B.K.)

Cassia tenella H.B.K. Nov. Gen. 6: 365. 1824.

Type locality: Orinoco River, near San Borja.

Distribution: Known to me only from description.

21. Chamaecrista Andreana Britton, provisional

Piedras et Ibaque, foot of Mt. Quindio [André 1974]

Desor. in situ

? = *Howellia*

22. Chamaecrista flexuosa (L.) Greene, Pittonia 4: 27. 1899.

Cassia flexuosa L. Sp. Pl. 379. 1753.

Cassia arenaria H.B.K. Nov. Gen. 6: 370. 1824.

Type locality: Brazil.

Distribution: British Guiana [Jenman 5174]; Venezuela [Stevens; Pittier 10606]; Colombia (ex Benth) Cuba. Oaxaca to Panama. Brazil. Bolivia. Paraguay.

Illustration: Breyn, Cent. pl. 23.

23. Chamaecrista simplex Standley, Contr. Nat. Herb. 13: 103. 1916.

Type locality: near Chepo, Panama.

Distribution: Colombia [Holton; Schlim 166; Pennell 1454; 2934, 3465, 3674; Pennell & Killip 5961; Killip & Smith 20777]. Panama.

24. Chamaecrista roraimae (Benth.) *R. & H.*

Cassia roraimae Benth. Trans. Linn. Soc. 27: 574. 1871.

Type locality: Roraima, British Guiana.

Distribution: British Guiana [Jenman 71]

25. Chamaecrista arborescens Britton, ined.

Near Tapata, Culagá Valley, Santander, Colombia [Killip & Smith 20146] *near Killip*

26. Chamaecrista Chamaecrista (L.) Britton, Bull. Torr. Club 44:

12. 1917.

Chamaecrista arborescens Britton, *Monac. L. Bot.* 292, 1794

Cassia Chamaecrista L. Sp. Pl. 379. 1753.

Cassia diffusa Mim. Soc. Phys. Geneve 2: 130. 1824.

Chamaecrista diffusa Britton, Ann. Mo. Bot. Gard. 2: 41. 1915.

DC.

Type locality: Curacao

Distribution: Curacao [Britton & Shafer 2919, 2988; Curran & Haman 179]; Margarita [Miller & Johnston 210]; Venezuela [Saer 205; Pittier 9549] Jamaica. Cuba. Bahamas. St. Kitts to Grenada. Veracruz.

Illustration: Breyn, Cent. Pl. pl. 24; Schrank. Hort. Monac.

pl. 33.

27. Chamaecrista flavicoma (H.B.K.) Greene, Pittonia 3: 242. 1891.

Cassia flavicoma H.B.K. Nov. Gen. 6: 366. 1824.

Cassia stipulata G. Don, Gen. Syst. 2: 44. 1832.

Type locality: Orinoco River.

Distribution: Venezuela [Jahn 1138]; Colombia [Triana 4489; Holton 987; André 2814; Toro 783; Dawe 831; Pennell 2702, 5477; *Archer* 1031; *Quadrado* 1398; *Holton* 987]

74
28. Chamaecrista stenocarpa (Vogel) Standley, Contr. U. S. Nat.

Herb. 18: 104. 1916.

Cassia stenocarpa Vogel, Syn. Cass. 68. 1837.

Type locality: Brazil.

Distribution: Ecuador [Hitchcock 20218]; Venezuela [Pittier 11613; Bailey 159]; Colombia [H. H. Smith 275, 2537; Killip & Smith 14462], Panama to Vera Cruz and Guerrero; Jamaica; Cuba; Curaçao. Brazil.

29. Chamaecrista riparia (H.B.K.) Britton, Bull. Torr. Club 44: 11.

1917.

Cassia riparia H.B.K. Nov. Gen. 6: 369. 1824.

Type locality: Magdalena River, near Mompox, Colombia.

Distribution: British Guiana (ex Bentham); Colombia [Pennell 4029] Brazil and Peru (ex Bentham)

30. Chamaecrista Parkeriana (DC.)

Cassia Parkeriana DC. Prodr. 2: 504. 1825.

Type locality: Demarara.

Distribution: British Guiana [Abraham 69, ex descriptio]

30a. Chamaecrista Browniana B. & R., ined. *N. Am. Fl.* 23: 293. 1930

Cundinamarca, Colombia [Pennell 1351]. El Salvador - Bolivia

75
31. Chamaecrista propinqua (H.B.K.) *Brick*

Cassia propinqua H.B.K. Nov. Gen. 6: 369. 1824.

Type locality: Caripe, and Monte Cocollar, [Venezuela ?]

Distribution: Colombia [~~Holton~~; Nicholas]; Venezuela [Fendler
326]

32. Chamaecrista patellaria (DC.) Greene, Pittonia 4: 32. 1899.

Cassia patellaria DC.; Collad. Hist. Cass. 125, 1816.

Type locality: Cayenne.

Distribution: Tobago [Eggers 5509; Broadway 3062]; Trinidad
[Kuntze 1078; Britton & Hazen 1581]; French Guiana [Leprieur]; Dutch
Guiana [Kegel; Hostmann 451]; Venezuela [Stevens]; Colombia [Schlim
174; H. H. Smith 274, 707; Toro 777; Pennell 1499, 1509, 2773, 3604,
5614, 5642; Killip 11533; Pennell & Killip 5960, 6040; Killip & Smith
20876]. *Brick 158* Panama to Vera Cruz. Jamaica. Cuba. *Brick 158* Brazil. Bolivia.

Illustration: Collad., loc. cit. pl. 16.

33. Chamaecrista fusagasugae Britton, ined. *Brick* = *Leavenworthii*

Fusagasuga, Colombia, 1600-1800 m. alt. [André 1398]

Note. Compare with C. tristicula.

34. Chamaecrista huigrensis B. & R., ined.

Vicinity of Huigra, Ecuador [Rose & Rose 22205 type; ? 23851]

Deser. written

35. Chamaecrista praetexta (Vogel) *Britton*

Cassia praetexta Vogel, Syn. Cass. 67. 1837.

Type locality: Guiana.

Distribution: Trinidad [Trin. Herb. 4650]; French Guiana,
British Guiana and Brazil (ex Benth)

36. Chamaecrista tristicula (H.B.K.) *Britton*

Cassia tristicula H.B.K. Nov. Gen. 6: 367. 1824.

Type locality: Fusugasuga, Colombia.

Distribution: Colombia [Pennell 1328, 1869] ~~Vera Cruz~~ (?)

See 88

37. Chamaecrista microcarpa Britton, ined.

El Valle, near Caracas, Venezuela [Ernst]

Deser. written

77
38. Chamaecrista hecatophylla (DC.) Greene, Pittonia 4: 32. 1899.

Cassia hecatophylla DC.; Collad. Hist. Cass 124. 1816.

Type locality: probably Tobago.

Distribution: Tobago (?) British Guiana (ex Benth)

Illustration: Collad. loc. cit. pl. 18.

Note. Referred by Benth to Cassia mimosoides L.

39. Chamaecrista mimosoides (L.) Britton

Cassia mimosoides L. Sp. Pl. 379. 1753.

Type locality: Ceylon.

Distribution: Admitted by Benth to wide range in tropical America. Recorded by Benoist from French Guiana. Definitely known only to me from Old World tropics.

40. Chamaecrista magna Britton, provisional

Vicinity of Merida, Venezuela [Pittier 12864]

Note. Small tree, 2-3 m. high.

Handwritten notes:
? 42. Chamaecrista over the Avicete here
page 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 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626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 212

Grimaldia Schrank
Type species: *Grimaldia speciosa* Schrank

79

25 ~~Grimaldia in northern South America~~

1. *Grimaldia Absus* (L.) B. & R., *N. Am. Flora* 23: 299. 1930

Cassia Absus L. Sp. Pl. 376. 1753.

Grimaldia opifera Schrank, All. Bot. Beibl. 4: 187. 1805.

Senna Absus Roxb. Fl. Ind. 2: 340. 1832.

Type locality: India.

Distribution: Bonaire [Boldingh 7363] Venezuela [Pittier 9927]

Grenada. Sinaloa to Jalisco and Vera Cruz, Bolivia.

Paraguay. Native of the Old World tropics.

Illustration: Jacq. Pl. Rar. 1: pl. 53.

2. *Grimaldia hispidula* (Vahl) B. & R. *N. Am. Flora* 23: 299. 1930

Cassia hispidula Vahl, Eclog. 3: 10. 1807.

Cassia hispida Collad. Hist. Cass. 118. 1816.

Cassia lotoides H.B.K. Nov. Gen. 6: 361. 1824.

Type locality: South America.

Distribution: Trinidad [Broadway; Britton & Broadway 2317;
Jewel Guiana (ex H.B.K.)]
Britton & Hazen 71]; Dutch Guiana [Samuels 325]; British
Guiana [Abram 2]; Venezuela [Stevens]. Cuba. Guatemala
to Panama. Brazil.

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 35, f. 2.

La. *Grimaldia cuneifolia* (Vogel)

Cassia cuneifolia Vogel, Pya. Cass. 51. 1837

British Guiana [Abram 4] Brazil

3. *Grimaldia viscosa* (H.B.K.) Britton & Rose

Cassia viscosa H.B.K. Nov. Gen. 6: 300. 1824.

Cassia cuneifolia Vogel, Syn. Cass. 51. 1837

Type locality: Mesa de Cuello, near Contreras and Ibaguë, X

Colombia.

Distribution: British Guiana [Abraham 3]; Colombia (ex H.B.K.).
Brazil. Killebrew 16264.

26. *Pelouzeana* *Grimaldia*

80

4. Grimaldia (?) polystachya (Benth.)

Cassia polystachya Benth. Journ. Bot. Hook. 2: 77. 1840.

Type locality: British Guiana.

Distribution: known to me only from description

Based on [Schomburgk 621.]

the type collection

out

5. Grimaldia orinocensis (Spruce)

Cassia orinocensis Spruce; Benth. in Mart. Fl. Bras. 15²: 150. 1870.

Type locality: Esmeralda, Orinoco River.

Distribution: Venezuela [Jahn 753; Pittier 10551] see Pittier 12618

6. Grimaldia Baileyorum B. & R.; ined. Bailey, *Guatemala* 2: 203, f. 106

near Ciudad Bolivar, Orinoco River, Venezuela [Bailey 1392]

1930

Type locality:

near Ciudad Bolivar: Venezuela [Bailey 1392, Pittier 10552 +

7. Grimaldia Pennellii B. & R., ined.

Colombia [Killip & Smith 16264 type, 15419; Rusby & Pennell 1125;

(?) André 2922; Pennell 1643, 2344]

deser. written

8. Grimaldia zuliensis B. & R., ined.

Zulia,
Mene Grande, Venezuela [Pittier 10582]

Same as Bailey's name!

Cassia [Jamaica] L.
Type species: Cassia Fistula L.

27 ~~Cassia in northern South America~~

81

1. Cassia Fistula L. Sp. Pl. 377. 1753.

Cathartocarpus Fistula Pers. Syn. 1: 459. 1805.
Braetyllobium Fistula Willd. Enum. Hort. Berol. 440. 1809.

Type locality: India.

Distribution: Curacao [Curran & Haman 231]; Trinidad [Kuntze 884]; Margarita [Miller & Johnston 69]. Widely planted and naturalized in the West Indies. Native of the Old World tropics.

Illustrations: Tussac, Fl. Ant. 4: pl. 2; Descourt. Fl. Ant. 2: pl. 125; Benth & Trim. Med. Pl. pl. 87.

2. Cassia grandis L.f. Suppl. 230. 1761.

Cathartocarpus grandis Pers. Syn. 1: 459. 1805.
Baetyllobium grande Hornem. Hort. Hafn. 1: 135. 1813.
Cassia brasiliensis Lam. Encycl. 1: 649. 1783.
Cassia mollis Vahl, Symb. 3: 57. 1794.
Cathartocarpus brasiliensis Jacq. Fragm. 59. 1809.

Type locality: Surinam.

Distribution: Tobago [Broadway 3613]; Trinidad [Britton 2923];
Dutch Guiana [Hostmann & Keppeler^e 12597] Venezuela [Pittier 10148]; Colombia
[Toro 252; Holton 981; H. H. Smith 2061, André 2562; Pennell 4127].
Jamaica; Cuba; Hispaniola; Porto Rico. Guerrero to Panama. Brazil (?)

Illustration: Jacq. loc. cit. pl. 85, f. 3.

Cassia

3. Cassia moschata H.B.K. Nov. Gen. 6: 338. 1824.

Cathartocarpus moschatus Don, Gen. Syst. 2: 453. 1832.

Type locality: Mompox, Magdalena River, Colombia.

Distribution: Trinidad [Britton, Hazen & Broadway 969];
Venezuela [Pittier 11477, 11683; Bailey 1330] Colombia [Pennell
4082] Panama to southern Mexico (ex Rose)

Illustration: Trans. Linn. Soc. 24: pl. 26.

4. Cassia Sagotiana Benth. in Mart. Fl. Bras. 15²: 93. 1870.

Type locality: River Acarony, French Guiana.

Distribution: Known to me only from ^udescription of the type
specimen. Recorded by Benoist from Gourdonville (Bull. Soc. Bot. Fr
^aFrench 66: 384)

5 ? Cassia

Lower Orinoco River [Rusby & Squires 24]

not Cassia

Note. Not a tree ^uCassia. Undescribed genus ?

6. Cassia leiandra Benth. in Mart. Fl. Bras. 15²: 94.

Type locality: Rio Negro, Brazil.

Distribution: British Guiana (var. guianensis)

(and with) Brazil

Distribution: Benth. loc. cit. pl. 30

Pseudocassia *Hutton & Rose*
Type species: *Cassia spectabilis* DC.

83

28 ~~*Pseudocassia* in northern South America~~

1. *Pseudocassia spectabilis* (DC.) B. & R. ~~ined.~~

H. & R. ined. 23: 230. 1930

Cassia spectabilis DC. Cat. Hort. Monsp. 90. 1813.
Cassia speciosa H.B.K. Nov. Gen. 6: 338. 1824. Not Schrad.
Cassia Humboldtiana DC. Prodr. 2: 489. 1825.
Cathartocarpus Humboldtianus Loudon, Hort Brit. 167. 1832.
Cathartocarpus speciosus G. Don. Gen. Syst. 2: 453. 1832.
Cathartocarpus trinitatis G. Don. Gen. Syst. 2: 453. 1832.
Cassia trinitatis Rehb.; Vogel, Syn. Cass. 46. 1837.

Type locality: Caracas, Venezuela.

Distribution: Tobago [Eggers 5704; Broadway 3211]; Trinidad
[Trin. Herb. 7462] Venezuela [Fendler 331; Rose 21762; Pittier 9702,
11564; E. Pittier 14]; Colombia Rusby & Pennell 274; Pennell 5638;
Chardon 136; Killip & Smith 16173; Toro 266, 871] Jamaica, Cuba,
Hispaniola. Tabasco to Panama.

Illustration: Collad. Hist. Cass. pl. 7.

2. *Pseudocassia Eggersii* Rose, ined.

Monabi, Ecuador [Eggers 15549]

Eggersii a very new to the genus

3. *Pseudocassia*

Esmeralda, Venezuela (Fate 254)

Chamaefistula G. Don
Type species: *Cassia bacillaris* L.f.

84

29. *Chamaefistula* in northern South America

1. *Chamaefistula undulata* (Benth.) Pittier, Arb. & Arb. Legum. 120. 1928.

Cassia undulata Benth. Journ. Bot. Hook. 2: 76. 1840.

Type locality: British Guiana.

Distribution: Trinidad [Kuntze 698; Broadway 9795; Britton 2157; Britton & Brown 2406; Britton, Hazen & Mendelson 883; Britton & Hazen 100]; (?) French Guiana (ex Benoist as *Cassia viminea*); British Guiana (ex Benth); Venezuela [Pittier 9113, 10856, 12773; ? Rusby & Squires 319]; Colombia [Pennell 3774, 4102. Toro 1021].
Panama to Yucatan.

2. *Chamaefistula latifolia* (G. F. W. Meyer) *Don*

Cassia latifolia G. F. W. Meyer, Prim. Fl. Esseq. 106. 1818.

Type locality: Arowabisch Kreek, Dutch Guiana.

Distribution: French Guiana and Dutch Guiana (ex Benth); British Guiana [Jenman 1176; Hitchcock 17258; Gleason 808; La Cruz 1760, 2229]

3. *Chamaefistula macrophylla* (Kunth) G. Don, Gen. Syst. 2: 451. 1832.

Cassia macrophylla Kunth, Mim. 126. 1819.

Type locality: near Cartagena, Colombia.

Distribution: Colombia [Holton 980; Triana 4384; André 1811; Pennell, Killip & Hazen 8613]

Illustration: Kunth, loc. cit. pl. 38.

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4. Chamaefistula grandifolia B. & R., ined.

Las Cruchitas, Venezuela [Jahn 477]
Las Cruchitas - Venezuela

5. Chamaefistula chrysocarpa (Desv.) Pittier, Arb. & Arb. Legum. 123.
1928.

Cassia virgata Rich. Act. Soc. Hist. Nat. Paris 1: 108. 1794. Not
Sw. 1788.

Cassia chrysocarpa Desv. Journ. Bot. 3: 72. 1814.

Cassia chrysotricha Collad. Hist. Cass. 99. 1816.

Cassia chrysogyne Miquel, Linnaea 18: 581. 1844.

Type locality: Guiana.

Distribution: French Guiana [Broadway 678]; Dutch Guiana
Hostmann 728]; Venezuela [Pittier 11259]. Brazil (ex Benth).

Note. The Venezuela plant differs slightly from that of the
Guianas.

6. Chamaefistula speciosa (Schrad.) G. Don, Gen. Syst. 2: 451. 1832.

Cassia speciosa Schrad. Goett. Anz. 1821: 718. 1821.

Cassia micans Nees, Flora 303, 329. 1821.

Cassia bijuga Vogel, Syn. Cass. 17. 1837.

Cassia nervosa Vogel, Syn. Cass. 39. 1837.

Type locality:

Distribution: Colombia [Pennell 1895; Killip & Smith 15403,
16459, 16828]. Brazil.

7. Chamaefistula martensis R. & R., ined.

Santa Marta, Colombia [H. H. Smith 253]

Deser. nov. 1892

8. Chamaefistula quinguangulata (L. C. Rich.) *R. & R.*

Cassia quinguangulata L. C. Rich. Act. Soc. Hist. Nat. Paris 1:
108. 1792.

Type locality: Cayenne.

Distribution: French Guiana [Sagot] Dutch Guiana [Hostmann;
Kegel 809]; British Guiana [Jenman 5243; Gleason 13,50, 776; La Cruz
1088, 1317, 1745, 1897, 2289, 2292, 2344, 2411, 2868, 3140, 3462,
3747, 3910, 4493] Brazil.

Illustration: Vell. Fl. Flum. Ic. 4: pl. 62.

Note. Recorded by Benthams from St. Kitts.

9. Chamaefistula tolimensis B. & R., ined.

Honda, Tolima, Colombia [Pennell 3559]

Deser. nov. 1892

87
10. Chamaefistula bacillaris (L.f.) G. Don, Gen. Syst. 2: 451. 1832.

Cassia bacillaris L.f. Suppl. 231. 1781.

Cathartocarpus bacillus Pers. Syn. 1: 459. 1805.

Cassia puberula H.B.K. Nov. Gen. 6: 341. 1824.

Chamaefistula puberula G. Don, Gen. Syst. 2: 441. 1832.

Type locality: Surinam.

Distribution: Tobago [Eggers 5518; Broadway 2451]; Trinidad [Kuntze 622; Britton 2180; Britton & Hazen 96]; Margarita [Miller & Johnston 62]; Dutch Guiana [Kegel 66; Samuels 300]; British Guiana [Hitchcock 16546; Jenman 5845]; Venezuela [Broadway 176; Pittier 11943; Bond, Gillen & Brown 45]; Colombia [Pennell 4749, 3714; Killip & Smith 14319, 14517, 14686] St. Vincent. Porto Rico. Panama. Costa Rica. Brazil.

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 31.

11. Chamaefistula insignis (N. E. Brown) *det*

Cassia insignis N. E. Brown, Trans. Linn. Soc. II. 6: 24. 1901.

Type locality: Upper slopes of Mt. Roraima, British Guiana.

Distribution: type locality and vicinity [Quelch & McConnell 23 co-type; Tate 248, 260]

12. Chamaefistula Gleasoni B. & R., ined.

British Guiana [La Cruz 4353 type; Schomburgk 881]
det by W. R. Rutter

13. Chamaefistula Smithiana B. & R., ined.

Santa Marta, Colombia [H. H. Smith 251, type; 250]
det by W. R. Rutter

14. Chamaefistula huilana B. & R., ined.

Cordillera oriental, east of Neiva Huila, Colombia [Rusby & Pennell 639 type; 856; ? André 215] *Solima (Pennell 1278)*
Des. M. M. H. H.

15. Chamaefistula Currani B. & R., ined.

Estrella, Bolivar, Colombia [Curran 348]
Des. M. M. H. H.

holivensis
16. Chamaefistula pallidiflora R. & R., ined.

Tierra Alta, Rio Sinu, Bolivar, Colombia [Pennell 4666]
Des. M. M. H. H.

17. Chamaefistula (?) caucana B. & R., ined.

Cuesta de Tocota, Cauca, Colombia [Pittier 720]
Des. M. M. H. H.

18. Chamaefistula oxyphylla (Kunth) G. Don, Gen. Syst. 2: 451. 1832.

Cassia oxyphylla Kunth, Mim. 129. 1819.

Type locality: Monte Cocollar, Cumana, Venezuela.

Distribution: Venezuela [Pittier 9515, 9876, ¹²²⁵¹12561; E. Pittier 151; Curran & Haman 993] Colombia [Killip & Smith 14782]

Illustration: Kunth, loc. cit. pl. 39; Benth. Trans. Linn. Soc.

27: pl. 61.

19. Chamaefistula inaequilatera (Balbis) G. Don, Gen. Syst. 2:
490. 1832.

Cassia inaequilatera Balbis; DC. Prodr. 2: 490. 1825.

Type locality: Santa Marta, Colombia.

Distribution: Colombia [H. H. Smith 700, from type region]

Venezuela (ex Pittier)

20. Chamaefistula Hartwegii (Benth.)

Cassia Hartwegii Benth. Pl. Hartw. 117. 1839.

Type locality: Near Guayaquil, Ecuador.

Distribution: Ecuador [Rose & Rose 22467]

21. Chamaefistula puberula R. & R., ined.

Dist. loc. Santa Marta, Colombia [Purdie]

(HBK) Don, Syst. 2: 457. 1832

Cassia puberula HBK. Don, Syst. 2: 457. 1832

Cassia puberula Willd.; Pursh, Amer. Bot. 2

Type locality: Contreras, Colombia

1844

22. Chamaefistula Jahniana B. & R., ined.

Bobures, Venezuela [A. Jahn 368]

For key - the number 445.

see also the

Chamaefistula

23. Chamaefistula pumila Britton & Rose; Pittier, Arb. & Arb. Legum.
122. 1828.

Venezuela [Pittier 10402, 12452; Curran & Haman 897; Fendler
327; E. Pittier 22, 150; Saer 264]

24. Chamaefistula scandens (R. & P.) *B. & R.*
Cassia scandens R. & P.; G. Don. Gen. Syst. ^{2nd} 2: 440. 1832.

Type locality: Guayaquil, Ecuador.

Distribution: Known to me only from description.

25. Chamaefistula Ruiziana G. Don, Gen. Syst. 2: 451. 1832.

Cassia Ruiziana Vogel, Syn. Cass. 40. 1837.

Type locality: Guayaquil, Ecuador.

Distribution: Known to me from description only.

26. Chamaefistula axillaris Pittier, Arb. & Arb. Venez. 89. 1927.

Type locality: Alrededores de Petare, Miranda, Venezuela.

Distribution: Type locality [Pittier 9801]

~~27. Chamaefistula foliosa Pittier, Arb. & Arb. Venez. 90. 1927.~~

91
27. Chamaefistula foliosa Pittier, Arb. & Arb. Venez. 90. 1927.

Type locality: El Liman, valley of Puerto La Cruz, Federal District, Venezuela.

Distribution: Type locality [Jahn 1301]

see Part 290

28. Chamaefistula hemicardia Pittier, Arb. & Arb. Venez. 90. 1927.

Type locality: Alrededores de Las Mostazas, Miranda, Venezuela.

Distribution: Type locality [Allart 199]

29. Chamaefistula Hoffmansegii (Mart.)

Cassia Hoffmansegii Mart.; Benth. in Mart. Fl. Bras. 15²: 104. 1870.

Type locality: Para, Brazil.

Distribution: French Guiana (ex Bentham); Brazil.

Note: Not in New York Herbarium, June, 1928.

30. Chamaefistula Fockeana (Miquel)

Cassia Fockeana Miquel, Linnaea 18: 579. 1844.

Type locality: Spontaneous in garden at Paramaribo, Dutch Guiana.

Distribution: Apparently known only from type locality.

Note: Specimen from Experimental Garden, Paramaribo, Surinam, coll. Stubel. The species was reduced to C. bacillaris by Bentham.

= bacillaris

31. Chamaefistula angusta Britton, provisional
Villavicencio, Meta, Colombia [Pennell 1585]

new name

32. Chamaefistula gracilis Britton, provisional
San Martin, Rio del Palmar, Zulia, Venezuela [Pittier 10529]

new name

33. Chamaefistula apiculata Britton, provisional
Titiribe, near Medellin, Colombia [Toro 419]

new name

34. Chamaefistula subcoriacea Britton, provisional
Upper Rio Librijá, Santander, Colombia [Killip & Smith 16276]

new name

35. Chamaefistula Killipii Britton, provisional
Colombia [Killip & Smith 14919 type, 15415; Toro 584]

new name

36. Chamaefistula Toroana Britton, provisional
Fredonia, near Medellin, Colombia [Toro 848]

new name

37. Chamaefistula Jenmani Britton, provisional

British Guiana [Jenman 2158]

veres. m. t. m.

38. Chamaefistula acuminata Britton, provisional

Independence Park, Medellin, Colombia [Toro 61]

veres. m. t. m.

39. Chamaefistula (?) tolimana Britton, provisional

Libano, Tolima, Colombia [Pennell 3278]

No text - not described

40. Chamaefistula argutifolia Presl.

*Yarequeba - Peltis 12247
[Peltis to 1st more mature]*

41. Chamaefistula lanceolata Presl peruviana

Yarequeba Peltis 13093

42. Chamaefistula agui-lata Presl inell

*Yarequeba de las Puntas, Puntón de, Colombia +
[Hill's Puntón 15405]*

43. ? Chamaefistula

Peltis 4725

Adipera Raf.
Type species: *Cassia Herbertiana* Lindl.

94

30 ~~Adipera in northern South America~~

1. Adipera indecora (H.B.K.) *B. & R. Ann. Florae 23: 239. 1930*

Cassia indecora H.B.K. Nov. Gen. 6: 344. 1824.

Chamaefistula indecora G. Don, Gen. Syst. 2: 432. 1832.

Cassia bicapsularis pubescens Benth. Trans. Linn. Soc. 27: 525. 1871.

Cassia bicapsularis indecora Urban, Symb. Ant. 2: 268. 1900.

Type locality: Caracas, Venezuela.

Distribution: Trinidad [Britton & Broadway 2821] Venezuela

[Pittier 9721, 12548; Fendler 328; Rusby & Squires 189;

Bond, Gillin & Brown 148]; Colombia [Pennell 3908; Killip

3421; Pennell, Killip & Hazen 8522, 8607; Killip & Smith

19415, 20038; ^{Archer 726;} Holton 984]

2. Adipera laevigata (Willd.) B. & R.; B. & W. Sci. Surv. P. R. & V. I.

5: 371. 1924.

Cassia laevigata Willd. Enum. 441. 1809.

Chamaefistula laevigata G. Don. Gen. Syst. 2: 452. 1832.

Type locality: not cited ?

Distribution: Guiana (ex Bentham) Colombia [Toro 561] Sinaloa

to Guatemala. Cuba. Porto Rico. Jamaica. Old World

tropics.

Illustration: Callad. Hist. Cass, pl. 5.

- 95
3. Adipera bicapsularis (L.) B. & R.; B. & W. Sci. Surv. P. R. &
V. I. 5: 370. 1924.

Cassia bicapsularis L. Sp. Pl. 376. 1753.
Cassia pendula Willd. Enum. 440. 1809.
Cassia coluteoides Collad. Hist. Cass. 102. 1816.
Senna bicapsularis Roxb. Fl. Ind. 2: 342. 1824.

Type locality: India.

Distribution: Trinidad [Britton, Freeman & Brown 2776];
Curacao [Britton & Shafer 3089]; Bonaire [Boldingh 7311];
British Guiana [Jenman 5625; Hitchcock 16715] Venezuela
[Broadway 165, 588, 705; Colombia [Triana 4401; Schott;
Pennel 3938, 4075, 4723, 4727; H. H. Smith 256, 257,
699; Killip & Smith 14028]; Ecuador [Sinclair]
Illustrations: Collad. loc. cit. pl. 12; Britton Fl. Berm. f.
192.

4. Adipera tomentosa (L.f.) B. & R., ined.

N. Am. Flava 23:241, 1930

Cassia tomentosa L.f. Suppl. 231. 1781.
Cassia multiglandulosa Jacq. Ic. Rar. 1: pl. 72.
Cassia lutescens G. Don. Gen. Syst. 2: 442. 1832.
Cassia albida Ort. Dec. 8: 92.

Type locality: South America.

Distribution: Colombia [Triana 4402; Schlim. 941, André 1283;
Pennell 2345, 7137, 7137; Toro 748]; Ecuador [Conthony; Pachano
101]

Illustration: Jacq. loc. cit. pl. 72.

Note. See André, 2744bis, Colombia.

5. Adipera Hitchcockii B. & R., ined.

Milago Guayas, Ecuador [Hitchcock 20298]

Deser. written

6. Adipera arborea Britton, ined.

Mesa do los Santos, Santander, Colombia [Killip & Smith 15180]

Deser. written

7. Adipera Jahni Rose, ined.

Venezuela [Jahn 73, 708, 1171 in U. S. Nat. Herb.] *Yahnigui 12*

Note. Not in New York Herb. July, 1928

8. Adipera santanderensis ined

9. Adipera Pice Glava Pittier, ined
Venezuela. Juyipello [Pittier 12641, 13159]

10. Adipera Pittier, Venezuela 12892 as "Peruvia Pittier"
Adipera

11. Adipera Caraca Lutika N. & R.
Ecuador (Kimbuel 3)

Emelista Raf.
Type species: *Cassia obtusifolia* L.

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31. ~~Emelista~~ in northern South America

1. Emelista pilifera (Vogel) B. & R. ined.

Pittier, Fauna, Marb. Acad. 19: 176, 1929

Cassia pilifera Vogel, Syn. Cass. 23. 1837.

Type locality: Brazil.

Distribution: Colombia [Schlim 268]. Durango to Panama.

Bolivia and Brazil to Uruguay *longue tige*

2. Emelista tora (L.) B. & R.; B. & W. Sci. Surv. P. R. & V. I. 5: 371. 1924.

Cassia tora L. Sp. Pl. 376. 1753.

Cassia obtusifolia L. Sp. Pl. 377. 1753.

Cassia Tala Desv. Journ. Bot. 3: 23. 1814.

Type locality: India.

Distribution: Tobago [Eggers 5475]; Trinidad (ex Grisebach);

French Guiana [Broadway 38; 475]; British Guiana [Jenman 5630;

Hitchcock 16705; 16643]; Venezuela [Broadway 303];

Colombia [H. H. Smith 31; Heriberto 163; Pennell 3863;

Killip 5373; Killip & Hazen 8380; Killip & Smith 14038,

14089, 14195], Southern United States; West Indies;

tropical continental America, Old World tropics.

Illustrations: Britton & Brown, Ill. Fl. f. 2036; ed. 2,

f. 2437; Desv. loc. cit. pl. 73.

3. Emelista mucronulosa Pittier, ined.

Fauna. Marb. Acad. 19: 176. 1929

Venezuela. [Saer 282, ex Pittier]

= *Diallobus uniflorus*

Note. Not in New York Herbarium, July, 1928.

Figures only 1-4 see long

4, Emelista dysophylla (Benth.)

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Cucurbit

4. Emelista dysophylla Benth. in Mart. Fl. Bras. 15²: 117. 1870.

Type locality: Goyaz, Brazil.

Distribution: British Guiana [Schomburgk 471]. Brazil.
Bolivia.

Herpetica Raf.
Type species: *Cassia alata* L.

99

32 ~~Herpetica in northern South America~~

Cassia alata L. Pl. M. 178. 1753.

1. *Herpetica alata* (L.) Raf. Sylva Tell. 123. 1838.

Cassia herpetica Jacq. Obs. 2: 24. 1767.

Cassia bracteata L.f. Suppl. 232. 1781.

Type locality: tropical America.

Distribution: French Guiana [Melinon]; Dutch Guiana [Samuels 309, 479]; British Guiana [La Cruz 1091, 3066, 3777, 4000; Hitchcock 16777]; Venezuela [Broadway 159; Rusby & Squires 19; Bond, Gillin & Brown 144]; Colombia [Rusby & Pennell 278; Lehmann B. T. 372]. West Indies (except Bahamas; Guerrero and Yucatan to Panama. Brazil. Paraguay. Old World tropics.

Illustration: Jacq. loc. cit. pl. 45, f. 2.

See name?

33- Apoucouita in northern South America

1. Apoucouita Apoucouita (Aubl.)

- Cassia Apoucouita Aubl. Pl. Guian. 1: 379. 1775.
- Cassia acuminata Willd. Sp. Pl. 2: 517. 1799.
- Cassia nitida Rich. Act. Soc. Hist. Nat. Paris 1: 108. 1792.
- Cassia ramiflora Vogel, Syn. Cass. 48. 1837.
- Cassia adenopoda Miquel, Linnaea 19: 436. 1846.

Type locality: French Guiana. *Vue par le [Haltere de K. 646]*

Distribution: French Guiana; Saget 802 Brazil.

Illustrations: Aubl. loc. cit. pl. 146; Benth. in Mart.

Fl. Bras. 15²: pl. 40.

Stenodophylla (Pav. n. 11)

2. Apoucouita (?) adiantifolia (Benth.)

Cassia adiantifolia Benth. in Mart. Fl. Bras. 15²: 130. 1870.

Type locality: Rio Napés, northern Brazil. *Nov 548*

Distribution: British Guiana [Jenman 4265; Leng 63] ~~Brazil~~.

Illustration: Benth. Trans. Linn. Soc. 27: pl. 68.

Note. Probably a distinct genus; fruit needed.

Is fruit known?

Cassia Stenodophylla Pav. n. 11, Kew Bull. 1928: 375. 1928

East of Kabinvi River, Maguerevi River, British Guiana

A tree 10m tall? - Leaves 10cm long - Bark & pith 24 - in fruit

94 Senna in northern South America

1. Senna obovata (Collad.) Betka, Mon. Senn. 32, 46. 1866.

Cassia obovata Collad. Hist. Cass. 92. 1816.

Type locality: Egypt.

Distribution: Aruba [Boldingh 6215]; Bonaire (ex Boldingh);

Margarita [Miller & Johnston 228]; St. Thomas St. Martin

St. Eustatius. Native of the Old World tropics.

Illustration: Collad. loc. cit. pl. 15, f. A.

Venezuela Pittier 10489 ; Jamaica, Hispaniola

Sericeo caria Britton
Type species: *Cassia uniflora* Mill

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35 ~~Diallobus in northern South America~~

Sericeo caria

Britton; *Proc. U. S. Nat. Acad. Sci.* 23: 246. 1930

1. ~~Diallobus uniflorus~~ (Mill.) Raf. ~~Sylva Tell.~~ 128. 1828.

Cassia uniflorus Mill. Dict. Gard. ed. 8. No. 5. 1768.

Cassia ornithopoides Lam. Dict. 1: 644. 1783.

Cassia sericea Swartz, Fl. Ind. Occid. 724. 1788.

Cassia sensitiva Jacq. Collect. 2: 362. 1788.

Cassia ciliata Hoffm. in DC. Prodr. 2: 493. 1825.

Cassia monantha DC. Prodr. 2: 506. 1825.

Type locality: Campeche.

Distribution: Margarita [Miller & Johnston 56]; Venezuela
[Pittier 6401, ex Rau]; Galapagos [Wheeler, Rose & Beebe 6]. El
Salvador to Sonora and San Luis Potosi. Jamaica; Cuba; Hispaniola.
Brazil.

Illustrations: Jacq. Ic. Rar. pl. 459; Benth. in Mart. Fl.
Bras. 15²: pl. 35, f. 1; Fawcett & Rendle, Fl. Jam. 4²: f. 33.

Ditremexa Raf.
Type species: *Cassia occidentalis* L.

103

16. *Ditremexa* in northern South America

1. *Ditremexa occidentalis* (L.) B. & R.; B. & W. Sci. Surv. P. R. & V. I. 5: 372. 1924.

Cassia occidentalis L. Sp. Pl. 377. 1753.
Cassia foetida Pers. Syn. 1: 457. 1805.

Type locality: Jamaica.

Distribution: Trinidad [McLean]; French Guiana [Broadway 160]; British Guiana [Jenman 4408; Hitchcock 16717; Gleason 255, 538, 858; La Cruz 1075, 3697, 4329]; Venezuela [Rusby & Squires 13; Broadway 16]; Colombia [Holton 983; Lehmann 8988; H. H. Smith 70; Ariston Joseph 1037; Pennell 3816, 5644; ^{Weller 813;} Killip & Hazen 8373; Killip & Smith 14229, 16439, 20950]. Southern United States; Mexico and Central America. Bermuda. West Indies. Brazil, Paraguay. Old World tropics.

Illustrations: Bot. Reg. pl. 83; Britton & Brown Ill. Fl. f. 2038; ed. 2, f. 2440; Britton, Fl. Berm. f. 193.

2. *Ditremexa Sophera* (L.) B. & R.; B. & W. Surv. P. R. & V. I. 5: 372. 1924.

Cassia Sophera L. Sp. Pl. 379. 1753.

Type locality: India.

Distribution: Curaçao [Boldingh 5306]; Trinidad [Broadway 8814]; Venezuela [Pittier 9712, 11563]; Colombia [Toro 84] West Indies. Vera Cruz. Panama. Brazil. Old World tropics.

3. Ditremexa hirsuta (L.) B. & R.; B. & W. Sci. Surv. P. R. & V. I.

5: 372. 1924.

Cassia hirsuta L. Sp. Pl. 378. 1753.

(?) Cassia curacasana Jacq. Hort. Schoenb. 3: 11. 1798.

Cassia venenifera Rodsch.; Meyer, Prim. Fl. Essq. 167. 1818.

Type locality: America.

Distribution: Tobago [Eggers 5945]; Trinidad [Kuntze 885; Britton, Hazen & Mendelson 1080]; Dutch Guiana [Kegel 315]; British Guiana [Jenman 2160, 4204; La Cruz 2058, 2090]; Venezuela [Pittier 9134]; Colombia [André 1479; Lehmann B. T. 607, 5511, 5364; Pennell 3346; Toro 7, 48, 70, 671] Jamaica. Porto Rico. Guadaloupe. Martinique. St. Vincent. ^{Tobago, Trinidad, Colombia to British Guiana} El Salvador. Peru. Bolivia. Brazil.

Illustration: (?) Jacq. loc. cit. pl. 270; Benth. in Mart. Fl.

Bras. 15²: pl. 34, f. 1.

23: 256. 1930
4. Ditremexa hirsuta (L.) B. & R. B. & W. Sci. Surv. P. R. & V. I.
Cassia hirsuta (L.) B. & R. B. & W. Sci. Surv. P. R. & V. I. 22: 528. 1849
Cassia hirsuta (L.) B. & R. B. & W. Sci. Surv. P. R. & V. I. 27: 536. 1871
Colombia [Pennell 5369; Lehmann 5511, 5364; Toro 7, 48, 70, 671] Venezuela [Pittier 9134] Cuba. Peru to Venezuela and El Salvador. Brazil, Paraguay, Bolivia

See reversed

✓ 7 Peiranisia in northern South America

1. Peiranisia biflora (L.) Pittier, Arb. & Arb. Legum. 128. 1928.

Cassia biflora L. Sp. Pl. 378. 1753.

Cassia tenuissima L. Sp. Pl. ed. 2, 541. 1763.

Cassia pallida Vahl, Eclog. 3: 12. 1807.

mult { Cassia nemorosa H.B.K. Nov. Gen. 6: 353. 1824.

Cassia nemorosa H.B.K. Nov. Gen. 6: 352. 1824

Type locality: described from cultivated plant, said to be from India.

Trinidad (Rock Kent, ex Williams)

Distribution: Margarita [Miller & Johnston 61]; Venezuela [Parker; Kuntze 1285]; Colombia [H. H. Smith 249; Rusby & Pennell 348; Pennell 3974, 4726; Killip & Smith 14040, 14621]; Ecuador [Eggers 14722]. Bahamas. Cuba. Grenada. Sinaloa and Chihuahua to Costa Rica.

Illustration: Bot. Mag. pl. 810 (2); *Nat. Reg. pl. 1310.*

2. Peiranisia robinaefolia (Benth.)

Cassia robinaefolia Benth. Trans. Linn. Soc. 27: 543. 1871. ✓

Type locality: Cuba

✓ Distribution: Colombia (Ocaña, Schlim 2, ex Bentham). Cuba.

3. Peiranisia viciaefolia (Benth.) Pittier, Arb. & Arb. Legum. 128. 1928.

Cassia viciaefolia Benth. Trans. Linn. Soc. 27: 544. 1871.

Type locality: Venezuela [Colonia Tovar]; not Colombia.

Distribution: Venezuela [Pittier 6060, 11335, 11692, 12256 ex

~~deser.] Ecuador [Hitchcock 20085?]~~

Note. Species based on (Fendler 2230, 2231). Not in Gray, Herb., Nat. Herb. or N. Y. B. G.

4. Peirania mirandina B. & R.; Pittier, Arb. & Arb. Legum. 128.

1928.

Type locality: [See Pittier 7523]

= La Llave

Distribution: Venezuela [~~Fendler 322; Pittier 5909; E. Pittier 156; Bailey 197; all ex descr.~~]

Note. ~~Type not in N. Y. Herb. June, 1928. Ask Washington.~~

✓ 5. Peirania Saeri B. & R.; Pittier, Arb. & Arb. Legum. 129. 1928.

Type locality: Venezuela (no type cited by Pittier)

Distribution: Venezuela [Saer 8, 190, ex descr.] Pittier 13098.

Note. ~~Ask Washington.~~

✓ 6. Peirania macrochlamys Pittier, Arb. & Arb. Venez. 92. 1927.

Type locality: Rio Portugueso, Venezuela.

Distribution: Venezuela [Pittier 12026; Saer 254] ? Pittier 11311.

✓ 7. Peirania magniflora B. & R.; Pittier, Arb. & Arb. Legum. 130. 1928.

Type locality: Valencia, Carabobo, Venezuela.

Distribution: Venezuela [Pittier 8678a]

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✓ 8. Peiranisia velutina Britton, provisional

Colombia [Lehmann B. T. 822 type; 827; ~~Killip & Smith 20750~~]

✓ 9. Peiranisia colombiana B. & R.

Colombia [Lehmann 5504]

Note. Gland subglobose.

Peiranisia

to Adipora

✓ 10. Peiranisia Mutisiana (Kunth) Pittier, Arb. & Arb. Legum. 128. 1928.

Cassia Mutisiana Kunth, Mim. 142. 1819.

Type locality: New Gr^adenada.

Distribution: Venezuela (Merida, coll. Jahn, ex Pittier);

Colombia [Holton; Triana 4405; Hartweg 960; Rusby & Pennell 850; Killip & Hazen 9631; Killip & Smith 16400; 19404; 19807]

Illustration: Kunth, loc. cit. pl. 43.

Peiranisia darcensis Britton
✓ 11. Peiranisia umbellata B. & R., ined.

Ecuador [Rose & Rose 22430]

Peiranisia

✓ 12. Peirania multijuga (Rich) Britton & Rose; Britton & Melanther
Cassia multiflora Rich. Act. Soc. Hist. Nat. Paris 1: 108. 1792.

Cassia Richardiana Kunth, Mim. 139. 1819.
Cassia Sellowii G. Don. Gen. Syst. 2: 442. 1832.
Cassia calliantha G. F. W. Meyer, Prim. Fl. Esseq. 169. 1850.
not (Cassia magnifica Mart. Herb. Fl. Bras. 106.
(Cassia amplifolia Steud.

Type locality: Cayenne.

Distribution: Trinidad [Trin. Herb. 1361, 2778]; French Guiana
[Melinon 252; Broadway 525, 914]; British Guiana [Jenman 7175; Gleason
390; La Cruz 963, 1883, 4208, 4374; ^{Altman 537} Tate 119; in Thurn 1910]; Brazil.
Peru (ex Benth)

Illustrations: Kunth, loc. cit. pl. 42; Benth, in Mart. Fl. Bras.
15²: pl. 37.

13. Peirania brachypoda Britton, provisional
Motatan Valley, on flats of river below Las Quebradas, Trujillo,
Venezuela [Pittier 12641]

~~37 a. Peirania brachypoda - Peirania
1. Peirania brachypoda venezuelensis Britton, Peirania
brachypoda venezuelensis Pittier, Peirania
brachypoda venezuelensis - Pittier 12890, type;
13167; 13258.
2. Peirania brachypoda venezuelensis Britton, Peirania
brachypoda venezuelensis Pittier, Peirania
brachypoda venezuelensis - Pittier 12890, type;
13167; 13258.
Described by Pittier~~

Isandrina Raf
Type species: *Cassia emarginata* L

109

38 *Isandrina* in northern South America

1. *Isandrina emarginata* (L.) B. & R.; B. & W. Sci. Surv. P. R. &
V. I. 5: 374. 1924.

Cassia emarginata L. Sp. Pl. 376. 1753.
Cassia arborescens Mill. Gard. Dict. ed. 8, no. 15. 1768.
Cassia elliptica H.B.K. Nov. Gen. 6: 356. 1823.
Cassia canescens H.B.K. Nov. Gen. 6: 357. 1823.
Isandrina arborescens Raf. Sylva Tell. 126. 1838.
(?) *Cassia siliquosa* Areschoug, Freg. Eugenies Resa 141. 1910.

Type locality: Caribbean Islands.

Distribution: Margarita [Johnston 24; Miller & Johnston 201];
? Bailey 1882]
Venezuela [Curran & Haman 779; Pittier 10316, 10500; Saer 135; Colombia
[Elias 126; Heriberto 359; H. H. Smith 20, 16b; Killip & Smith 14027,
14071, 14481, 21096] Ecuador (ex H.B.K.). Costa Rica to Sonora and Tamaulipas;
Jamaica; Cuba; Hispaniola; Porto Rico; Guadeloupe.

Illustration: Sloane, Hist. Jam. pl. 180, f. 1-4.

2. *Isandrina atomeria* (L.) B. & R., ined.

Cassia atomeria L. Mant. 68. 1767.
? *Cassia nutans* Collad. Hist. Cass. 113. 1816.

Type locality: America.

Distribution: Ecuador [Rose & Rose 23586; Hitchcock 21272];
Guatemala to Sinaloa. Bolivia.

Illustration: ? Collad. loc. cit. pl. 4.

3. *Isandrina turbacoana* Britton, provisional

Vicinity of Turbaco, Bolivar, Colombia [Killip & Smith 14481]

with drawn = *emarginata*

been written

4. Isandrina mollissima (H. & B.)

Cassia mollissima H. & B. Willd. Enum. Hort. Berol 440. 1809.

Cassia laeta H.B.K. Nov. Gen. 6: 340. 1824.

Cathartocarpus laetus G. Don. Gen. Syst. 2: 454. 1832.

Type locality: South America, Probably Guayaquil, Ecuador.

Distribution: Known to me only from the description.

Note. Not identified in New York Herbarium 1928.

place may be too from 2

39 ~~Chamaesenna in northern South America~~

Chamaesenna Raf.; Pittier, Arb. & Arb. Legum. 130, 1928

Type species: Chamaesenna reticulata (Willd.) Pittier.

1. Chamaesenna reticulata (Willd.) Pittier, Arb. & Arb. Legum. 130.
1928.

Cassia reticulata Willd. Enum. Hort. Berol. 443. 1809.

Cassia Tarantan H.B.K. Nov. Gen. 6: 347. 1824.

Cassia dumetorum Bert.; DC. Prodr. 2: 499. 1825.

Type locality: Para, Brazil.

Distribution: Trinidad [Britton & Hazen 1923]; British Guiana
[Hitchcock, 16530; Jenman 5242; La Cruz 2310]; Venezuela [Pittier
12028; Bailey 1614]; Colombia [Holton; H. H. Smith 248; Pennell &
Rusby 42; Killip & Hazen 838, 11061; André 180; ^{Are 1421} Killip & Smith 14595];
Guatemala to Panama, Bolivia, Brazil.

Ecuador [Mille 30]

- ✓ 2. Chamaesenna pistaciaefolia (H.B.K.) *Britton*

Cassia pistaciaefolia H.B.K. Nov. Gen. 6: 349. 1824.

Type locality: between Popayan and Meneses, Colombia.

Distribution: Colombia [Popayan, Lehmann 8539, ex descr.]

3. Chamaesenna fraxinifolia (H.B.K.)

Cassia fraxinifolia H.B.K. Nov. Gen. 6: 349. 1824.

Cassia cuspidata H. & B.; Willd. Enum. Hort. Berol. 443. 1809.

Cassia pistaciaefolia glabra Benth. Trans. Linn. Soc. 27: 551. 1871.

Type locality: near Jaen de Bracamoras [Peru]

Distribution: Colombia (~~ex Benth~~) *Peru*

4. Chamaesenna racemosa (Mill.) *not Chamaesenna?*

Cassia racemosa Mill. Gard. Dict. ed. 8, no. 19. 1768.

Cassia trinitatis Benth. Journ. Bot. Hook. 2: 77. 1840. Not Rchb.

Type locality: Cartagena, Colombia.

Distribution: British Guiana (ex Benth); Colombia (ex Miller; ex Benth). Brazil. Bolivia.

Note. Only Bolivian specimens in N. Y. Herb. June, 1928.

see specimens of trinitatis

5. Chamaesenna colombiana Britton, provisional

Colombia [Toro 866 type; 839]

Desv. nitida

6. Chamaesenna velutina Britton, provisional

Colombia [Killip & Smith 19655]

Desv. nitida

113
7. Chamaesenna occidentalis Britton, provisional

Quito, Ecuador [Johansen 5]

= *schultzeana*

8. Chamaesenna (?) santanderensis Britton, provisional

Santander, Colombia [Killip & Smith 16697 type; 16101, 16886,
18397, 19224, 19518, 20495]

~~79~~ ~~Pictacassia~~ in northern South America
~~Chapman~~

81. Pictacassia picta (G. Don.)

Cassia picta G. Don, Gen. Syst. 2: 444. 1832.

Cassia applanata N. J. Anders. Galap. Veg. 254. 1854.

Type locality: Guayaquil, Ecuador.

Distribution: Ecuador [Hitchcock 20023; Rose & Rose 22461; Rose,
Pachano and Rose 23505] Galapagos (ex Andersen)

Leave in Chapman

Echinocassia Britton & Rose
Type species: *Cassia aculeata* Pohl

115

40 *Echinocassia* in northern South America

1. *Echinocassia aculeata* (Pohl.) B. & R., ined. *N. Am. Flora* 23: 251, 1930.

Cassia aculeata Pohl; Benth. in Mart. Fl. Bras. 15²: 128. 1870.

Chamaesenna aculeata Pittier, Arb. & Arb. Legum. 131. 1928.

Type locality: Goyaz, Brazil.

Distribution: Venezuela [Pittier 12023] Cuba. X

Illustration: Benth. loc. cit. pl. 39.

Dicorynia Benth
Type & Locality: *Dicorynia paraensis Benth*

116

41 Dicorynia in northern South America

1. Dicorynia paraensis Benth. Journ. Bot. Hook. 2: 83. 1840.

Dicorynia Spruceana Benth. in Mart. Fl. Bras. 15²: 81. 1870.

Type locality: Para, Brazil.

Distribution: Venezuela [Spruce 1918, 3501]; French Guiana
(according to Benoist)

Illustration: Benth. in Mart. Fl. Bras. pl. 29.

2. Dicorynia ?

Maroni, French Guiana [Melinon 300]

Note. Evidently distinct from D. paraensis. This genus?

Vouacapoua Aubl.
Type species: *Vouacapoua americana* ¹¹⁷
Aubl.

42 Vouacapoua in northern South America

1. Vouacapoua americana Aubl. Pl. Guian. Suppl. 9. 1775.

Type locality: Forests of Guiana.

Distribution: Known to me only from description and illustration.

Illustration: Aubl. loc. cit. pl. 373.

Note. Genus placed by Benoist (Bull. Soc. Bot. France 66: 384)
between Sclerolobium and Dicorynia. Not the same as Andira.

See Benoist

Martia hutch [unclear]
Type species: *Martia excelsa* hutch

118

43. *Martia* in northern South America

1. *Martia excelsa* Benth. in Mart. Fl. Bras. 15²: 79. 1870.

Martinsia ^u*excelsa* Benth. Journ. Bot. Hook. 2: 84. 1840.

Type locality: Essequibo River, British Guiana.

Distribution: British Guiana.

Illustration: Benth. loc. cit. pl. 37.

Note. Not in New York Herbarium, June, 1928.

2. *Martia parvifolia* Benth. in Mart. Fl. Bras. 15²: 80. 1870.

Martinsia ^u*parvifolia* Benth. Journ. Bot. Hook. 2: 103. 1840.

(?) *Amphymenium mediterraneum* Mart.; Benth. Ann. Mus. Wien. 2: 95.

Type locality: Piaubi, Brazil.

Distribution: Dutch Guiana [Samuels 243]. Brazil.

Illustration: Benth. loc. cit. pl. 28.

Moldenhouera Petard
Type species: Moldenhouera floribunda
Petard

119

44 Moldenhouera in northern South America

1. Moldenhouera mollis Benth. in Mart. Fl. Bras. 15²: 77. 1870.

Type locality: La Victoria, Venezuela.

Distribution: Known only from the type locality, and to me from description only.

See Petard

Parkinsonia L.
Type species: *Parkinsonia aculeata* L.

120

45 Parkinsonia in northern South America

1. Parkinsonia aculeata L. Sp. Pl. 375. 1753.

Parkinsonia spinosa H.B.K. Nov. Gen. 6: 335. 1824.

Type locality: Tropical America. [not name in Trinidad, ex Willdow]

Distribution: Trinidad (ex Grisebach); Margarita [Miller & Johnston 63]; Curacao [Curran & Haman 211]; Dutch Guiana [Schweinitz]; British Guiana [Jenman 6552]; Venezuela [Stevens; Jahn 676; Rusby & Squires; Broadway 347] Colombia [Schott 17; Holtan 978; André 1865 bis; Toro 56; Lehmann B. T. 1176; Pennell 5639; Rusby & Pennell 328; Killip & Smith 21014]; Galapagos [Wheeler, Rose & Beebe 21]

Illustrations: Jacq. Stirp. Am. pl. 80; Mart. Fl. Bras. 15²: pl. 26; Sargent Silva N. Am. pl. 131. Man. Trees N. A. f. 463, ed. 2, f. 560; Britton & Shafer N. Am. Trees f. 501.

Haematoxylum L.
Type species: *Haematoxylum campechianum* L.

12/1

46 *Haematoxylum* in northern South America

- ✓ 1. *Haematoxylum* ^{see} campechianum L. Sp. Pl. 384. 1753.

Type locality: Campeche.

Distribution: Tobago [Eggers 5674]; Trinidad (ex Grisebach ;
Venezuela (ex Pittier). West Indies. Yucatan to Honduras.

Illustrations: Lam. Ill. pl. 341; Tussac, Fl. Ant. pl. 1;

Descourt. Fl. Ant. 2: pl. 73.

2. *Haematoxylum* ^{see} Brasiletto Karst. Fl. Col. 2: 27. 1862.

Type locality: Foot of the Andes, northern Colombia.

Distribution: Bonaire [Boldingh 7468 ; Curaçoa [Curran & Haman
252; Britton & Shafer 3054; Killip & Smith 21062]; Venezuela
[Curran & Haman 431; Pittier 11310] Colombia [H. H. Smith 258;
Killip & Smith 21094, 21106; record 78, 85]

Illustration: Karst. loc. cit. pl. 114.

Cercidium L. Dulacne
Type species: *Cercidium* *spinosum* L. Dulacne 122

47 ~~Cercidium in northern South America~~

1. *Cercidium praecox* (R. & P.) Harms, Bot. Jahrb. 42: 91. 1908.

Caesalpinia praecox R. & P.; H. & A. Bot. Misc. 3: 208. 1833.²

Cercidium spinosum Tul. Arch. Mus. Paris 4: 133. 1844.

Rhetinoplaeum viride Karst. Fl. Col. 2: 25. 1862.

Cercidium viride Taub. in E. & P. Nat. Pflf. 33: 172. 1892.

Type locality: Between ^eMendoza and the Papagayos,
Argentina.

Distribution: Curaçao [Curran & Haman 258]; Margarita
[Johnston 31]; Venezuela [Pittier 10486, 11177; Curran
& Haman 423]; Colombia [Killip & Smith 21016]; Ecuador
[Hitchcock 21331]. Peru. Argentina. Hispaniola.

Illustration: Karst, loc. cit. pl. 113.

Karst. Bot. Jahrb. 8: 346. 1887

Delonix Raf.

123

Type species: Poinciana regia Bojer

48 Delonix in northern South America

1. Delonix regia (Bojer) Raf. Fl. Tell. 2: 92. 1836.

Poinciana regia Bojer; Hook. Bot. Mag. pl. 2884. 1829.

Type locality: Madagascar.

Distribution: Widely planted. Tobago [Broadway]; Trinidad;
Margarita [Miller and Johnston 59]; Venezuela (ex Pittier);
Colombia [Killip & Smith 14419]. Florida, West Indies.

Continental tropical America.

Illustrations: Hook. loc. cit.; Reichenb. Exot. Fl. pl. 318.

Libidibia Schlegel

Type species: Poinciana coriaria Jacq.

124

49. Libidibia in northern South America

1. Libidibia coriaria (Jacq.) Schl. Linnaea 5: 103. 1830.

Poinciana coriaria Jacq. Sel. Stirp. 123. 1763.

Caesalpinia coriaria Willd. Sp. Pl. 2: 532. 1799.

Type locality: Curaçao.

Distribution: Curaçao [Killip & Smith 21054; Britton & Shafer 3025; Boldingh 1329]; Bonaire and Aruba (ex Boldingh); Trinidad [Britton, Freeman & Watts 2707]; Margarita (ex Johnston); Venezuela [Broadway 373; Curran & Haman 515, 574, 837, 911, 952, 1137; Pittier 10199, 11304]; Colombia [H. H. Smith 19; Killip & Smith 14031, 14135, 14438, 14456]. Panama to southern Mexico, Jamaica, Hispaniola, St. Thomas to Montserrat.

Illustrations: Jacq. Sel. Stirp. pl. 175, f. 36; ed. pict. pl. 260, f. 33.

2. Libidibia punctata (Willd.) Britton; B. & W. Fl. P. R. & V. I.

5: 378. 1924.

Caesalpinia punctata Willd. Enum. Hort. Berol. 445. 1809.

Poinciana punctata Poir. in Lam. Encycl. Suppl. 4: 449. 1816.

Caesalpinia paucijuga Benth. in Hook. Ic. pl. 1977. 1891.

Caesalpinia Granadillo Pittier, Arb. & Arb. Ven. 56. 1925.

Type locality: Brazil.

Distribution: Venezuela [Broadway 193; Pittier 10514; Curran & Haman 995] Colombia [Hood 40]

See Roth, Fl. Col. V. 201 ill?

3. Libidibia Ebeno (Karst.) Britton, ined

Caesalpinia Ebeno Karst. Fl. Col. 2: 57. 1862.

Type locality: Northern Colombia.

Distribution: Colombia [~~H. H. Smith 17~~ *Howe 64 J*]

Illustration: Karst. loc. cit. pl. 129.

4. Libidibia corymbosa (Benth.) Britton, ined

Caesalpinia corymbosa Benth. Pl. Hartw. 117. 1839.

Type locality: Near Guayaquil, Ecuador.

Distribution: Ecuador [Hartweg 651; Rose & Rose 23600;

Hitchcock 21405] *Colombia [H. H. Smith 17] Peru*

Nicarago Britton & Rose
Type species: Caesalpinia vesicaria L

126

50 Nicaragua in northern South America

1. Nicarago vesicaria (L.) B. & R. ined *N. Am. Flora* 29: 319. 1930

Caesalpinia vesicaria L. Sp. Pl. 381. 1753.

Poinciana bijugata Jacq. Enum. 20. 1760.

Caesalpinia bijuga Sw. Obs. 166. 1791.

Type locality: Tropical America.

Distribution: Curaçao (ex Jacquin). Jamaica; *Yucatan*
Cuba; Bahamas;

Illustrations: Gaertn. Fr. & Sem. pl. 144, f. 1; Sloane, Hist.

Jam. pl. 181, f. 2, 3.

Note. Not recorded from Curaçao by Boldingh.

Tara Molina
Type species: *Tara spinosa* Molina

127

51. Tara in northern South America

- spinosa* (Molina)
1. *Tara pectinata* (Cav.) B. & R., ined. *N. Am. Flora* 23: 310. 1930
~~*Poinsettiana spinosa* Molina, *Sagg. Chile* 158. 1782~~
Caesalpinia pectinata Cav. *Descr.* 467. 1802.
Tara tinctoria Molina, *Sagg. Chile* ed. 2, 153. 1810.
Coulteria tinctoria H.B.K. *Nov. Gen.* 6: 331. 1824.
Coulteria horrida H.B.K. *Nov. Gen.* 6: 330. 1824.
Caesalpinia tinctoria Benth.; Taubert in E. & P. *Nat. Pflf.* 3³:
175. 1894.

Type locality: ~~New Spain.~~ Lima, Peru

Distribution: Venezuela [Jahn 925]; Colombia [André 3561;
Ariste-Joseph A 337; Toro 840; Killip & Smith 16458, 16822, 20752];
Ecuador [Hitchcock 20843; Rose & Rose 22142] Peru. Bolivia. Chile.

Illustrations: H.B.K. *loc. cit.* pl. 569, (?) 568.

Brasilettia (DC) Kuntze 128
Type species: "*Caesalpinia brasiliensis* Sw.

52 *Brasilettia* in northern South America

1. *Brasilettia acutifolia* (Johnston) B. & R., ined

Caesalpinia acutifolia Johnston, Proc. Am. Acad. 40: 686. 1905.

Peltophorum Suringari Urban, Symb. Ant. 5: 363. 1908.

Peltophorum acutifolium Johnston, Proc. Bost. Soc. Nat. Hist.
34: 221. 1909.

(2) *Coulteria mollis* H.B.K. Nov. Gen. 6: 330. 1824.

Type locality: El Valle, Margarita.

Distribution: Margarita [Johnston 33; Miller & Johnston 200];

Curaçoa [Curran & Haman 281; Britton & Shafer 3084] Aruba

[Boldingh 6479; Olieberg 412]; Colombia [H. H. Smith 705] *new det*

Note. *Coulteria mollis* was from Santa Marta, Colombia; H. H.

Smith 705 is from same region.

Caesalpinia mollis P. R. Gray, Syst. 4: 601
169. 1827

Poinciana L
Type species: *Poinciana pulcherrima* L 129

53. *Poinciana* in northern South America

1. *Poinciana pulcherrima* L. Sp. Pl. 380. 1753.

Caesalpinia pulcherrima Sw. Obs. Bot. 166. 1791.

Type locality: India.

Distribution: Tobago [Eggers 5912, 5707]; Trinidad; Margarita [Miller & Johnston 64]; French Guiana [Sagot 174]; British Guiana [La Cruz 1013, 1074, 1939, 4042, 3729, 4054]; Venezuela [Stevens; Kuntze 1591]; Colombia [André 466; Holton; H. H. Smith 265; Lehmann B. T. 1096; Toro 110, 490; Killip & Smith 14489, 14922]. Florida. Bermuda. West Indies. Continental tropical America. Old World tropics.

Illustrations: Bot. Mag. pl. 995; Jacq. Sel. Stirp. ed. pict. pl. 120.

Caesalpinia L

130

Type species: Caesalpinia brasiliensis L

54 Caesalpinia in northern South America

1. Caesalpinia bicolor C. H. Wright, Kew. Bull. 1896: 22. 1896.

Type locality: Chacapoyas, Peru.

Distribution: Colombia [André 2914; Lehmann B. T. 610, 824]
Peru.

2. Caesalpinia - Affinity not recognized.

Rio Librija Valley, Santander, Colombia [Killip & Smith 16268]

~~Caesalpinia (Kunt 128)~~

~~Caesalpinia mollis (Kunt) Spreng. Syst. 4:~~

~~Cur. Part. 169. 1827.~~

~~Caesalpinia mollis Kunt; HBK. Vase. Gen. 2:~~

~~330. 1824.~~

~~? Adenocaulis nemorosus Steud. Nam. ed. 2, 1: 428~~
~~840.~~

Type locality:

~~Paraná, Colombia, around Petalito, 10 f.~~

~~809, ex Harms, Report, Sp. Nov. 24: 211.~~

Guilandina C

131

Type species: *Guilandina Bonducella* C

55 *Guilandina* in northern South America

1. *Guilandina crista* (L.) Small, Fl. SE. U. S. 591. 1903.

Caesalpinia crista L. Sp. Pl. 380. 1753.

Guilandina Bonducella L. Sp. Pl. ed. 2, 545. 1762.

Caesalpinia Bonducella Fleming, Asiatic Res. 11: 59. 1810.

Guilandina Bonduc minus DC. Prodr. 2: 480. 1825.

Type locality: Ceylon.

Distribution: Dutch Guiana [Schweinitz]; Venezuela (ex Pittier); Colombia [Heriberto 180; H. H. Smith 2062; Holton 977; Schott 15; Killip & Smith 14112; Pennell 12051]; Ecuador [Lehmann B. T. 729] Florida, Bermuda; West Indies south to Barbados. Sinaloa and Lower California to Panama. Brazil.

Illustrations: Lam. Ill. pl. 336; Gaertn. Fr. & Sem. pl. 148; Mart. Fl. Bras. 15²: pl. 21; Descourt. Fl. Ant. pl. 90; Britton, Fl. Berm. f. 194; Fawc. & Rendle, Fl. Jam. 4²: f. 32.

2. *Guilandina ciliata* Berg, Vet. Akad. Stock. Handl. 1825²: 431. 1825.

Caesalpinia ciliata Urban, Symb. Ant. 2: 275. 1900.

Type locality: St. Barts.

Distribution: Curaçao [Britton & Shafer 3020; Boldingh 4966];

St. Barts; St. Martin; Saba; Guadeloupe; Antigua ? Martinique ?

Note. The Curaçao plant may be distinct from that of the Leeward Islands.

Tounatea Aubl.
Type species: Tounatea guianensis Aubl.

56. Tounatea in Northern South America

132

- ✓ 1. Tounatea simplex (Sw.) Taubert, Bot. Centr. 47: 391. 1891.

Possira simplex Sw. Prodr. 82. 1788.

Rittera simplex Vahl, Symb. 2: 60. 1791.

Rittera grandiflora Vahl, Eclog. 2: 37. 1798.

Swartzia grandiflora Willd. Sp. Pl. 2: 1220. 1800.

Swartzia simplicifolia Willd. Sp. Pl. 2: 1219. 1800.

Swartzia echnacea DC. Mem. Leg. 405. 1825.

Swartzia simplex Spreng. Syst. 2: 567. 1825.

[*grandiflora*
distinct?]

Type locality: Caribbean Islands

Distribution: Tobago [Broadway 4646]; Trinidad [Britton, Hazen
& Mendelson 673; Britton & Broadway 2420; Britton 2214]

Illustrations: Vahl, Eclog. 2: pl. 9; DC. Mem. Leg. pl. 58.

2. Tounatea eriocarpa (Benth.) Taubert, Bot. Centr. 47: 391. 1891.

Swartzia eriocarpa Benth. in Mart. Fl. Bras. 15²: 17. 1870.

Type locality: Massaroonie, British Guiana.

Distribution: Known to me only from description [See
British Guiana - Stevens]

3. Tounatea Hostmanni (Benth.) Taubert, Bot. Centr. 47: 391. 1891.

Swartzia Hostmanni Benth. in Mart. Fl. Bras. 15²: 18. 1870.

Type locality: Surinam.

Distribution: Known to me only from description of the type
specimen.

4. Toumatea oblonga (Benth.) Taubert, Bot. Centr. 47: 392. 1891.

Swartzia oblonga Benth. Kew Journ. Bot. 2: 238. 1850.

Type locality: British Guiana.

Distribution: Known to me only from description of the type specimen.

5. Toumatea conferta (Spruce) Taubert, Bot. Centr. 47: 390. 1891.

Swartzia conferta Spruce; Benth. in Mart. Fl. Bras. 15²: 20. 1870.

Type locality: Rio Negro, Venezuela or northern Brazil.

Distribution: Known ~~to me~~ only from ~~description and illustration~~ ^{the type locality}.

Illustration: Benth. loc. cit. pl. 7, f. 2.

6. Toumatea floribunda (Spruce) Taubert, Bot. Centr. 47: 391. 1891.

Swartzia floribunda Spruce; Benth. in Mart. Fl. Bras. 15²: 21. 1870.

Type locality: San Carlos, Rio Negro, Venezuela.

Distribution: Known to me only from description of the type specimen.

La - *Is. grande folia* -
see photo

134

7. Toumatea arborescens (Aubl.) Britton, Bull. Torr. Club 16:

325. 1889.

Possira arborescens Aubl. Pl. Guian. 2: 934. 1775.

Rittera triphylla Sw. Prodr. 82. 1788.

Swartzia triphylla Willd. Sp. Pl. 2: 1220. 1799.

Swartzia parviflora DC. Mem. Leg. 403. 1825.

Type locality: French Guiana.

Distribution: French Guiana [Melinon]; Dutch Guiana (ex
Bentham); Colombia (~~ex Bentham~~). Brazil. Bolivia.

Illustrations: Aubl. loc. cit. pl. 355; DC. loc. cit. pl. 60.

8. Toumatea pachyphylla (Harms) Britton, ined.

Swartzia pachyphylla Harms, Notizb. Bot. Gart. Berlin, 6: 310. 1915.

Type locality: Roraima, Venezuela or British Guiana.

Distribution: Known to me only from description of the type specimen.

9. Toumatea myrtifolia (Smith) Taubert, Bot. Centr. 47: 392. 1891.

Swartzia myrtifolia Smith, in Rees Cyclop. 34: no. 5. 1819.

Type locality: Caracas, Venezuela.

Distribution: Venezuela (See Pittier, Arb. & Arb. Leg. 100); Colombia (ex Bentham). Brazil. See Guatemala specimen.

Note. Not certainly identified in New York Herb. June, 1928.

not at Washington, Oct. 1932, from
Colombia

10. Toumatea picta (Spruce) Taubert, Bot. Centr. 47: 392. 1891.

Swartzia picta Spruce in Mart. Fl. Bras. 15²: 25. 1870.

Type locality: Monte Imei, Rio Negro, Venezuela.

Distribution: Known ~~to me~~ only from ~~description of the type~~
specimen. *locality*

11. Toumatea crocea (Benth.) Taubert, Bot. Centr. 47: 390. 1891.

Mimosa crocea Benth. in Mart. Fl. Bras. 15²: 23. 1870.

Type locality: Rio de Janeiro, Brazil.

Distribution: Colombia (ex Benth.). Brazil. Central America
(ex Bentham)

Illustration: Vell. Fl. Flum. Ic. 11: pl. 17.

rest at Washington from Columbia Oct. 1992

11a. Toumatea guianensis Aubl. Pl. Guian. 1: 550. 1775.

Swartzia alata Willd. Sp. Pl. 2: 1220. 1799.

Type locality: Sinemear, French Guiana.

Distribution: Known to me only from description and
illustration.

Illustration: Aubl. loc. cit. pl. 218.

12. Tounatea Persaudii Britton, provisional

Cara-cara Creek, British Guiana [Persaud 73]

✓ 13. Tounatea trinitensis (Urban) Britton, ined.

Swartzia trinitensis Urban, Symb. Ant. 5: 365. 1908.

Type locality: Maracas, Trinidad.

Distribution: Trinidad [Trin. Herb. 2382]

14. Tounatea dicarpa (Moric.) Taubert, Bot. Centr. 47: 391. 1891.

Swartzia dicarpa Moric.; Meissn. Gen. Pl. Comm. 68. 1838.

Swartzia dipetala Willd.; Vogel, Linnaea 11: 173. 1837.

Swartzia microstylis Benth. Journ. Bot. Hook. 2: 89. 1840.

Type locality: Bahia, Brazil.

Distribution: British Guiana (ex Benth); Venezuela (ex Pittier). Brazil.

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 11, f. 1.

15. Tounatea Benthamiana (Miquel) Taubert, Bot. Centr. 47: 390. 1891.

Swartzia Benthamiana Miquel, Stirp. Surin 15. 1850.

Type locality: Surinam.

Distribution: French Guiana [From Paris Herb.] Dutch Guiana
(ex Benth). Brazil.

British Guiana!

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16. Toumatea leiocalycina (Benth.) Taubert, Bot. Centr. 47: 391. 1871.

Swartzia leiocalycina Benth. in Mart. Fl. Bras. 15²: 28. 1870.

Type locality: Wancova, Essequibo River, British Guiana.

Distribution: Known to me only from description of the type specimen.

17. Toumatea (?) sericea (Vogel)

Swartzia sericea Vogel, Linnaea 11: 176. 1837.

Type locality: French Guiana.

Distribution: French Guiana (ex Vogel). Brazil (~~ex Benth~~)

Illustration: Benth. in Mart. Fl. Bras. 15²: pl. 10.

Note. Not taken up by Taubert in Bot. Centr. 47: 390-392.

18. Toumatea argentea (Spruce) Taubert, Bot. Centr. 47: 390. 1891.

Swartzia argentea Spruce; Benth. in Mart. Fl. Bras. 15²: 31. 1870.

Type locality: Rio Negro, Brazil.

Distribution: Venezuela (ex Pittier). Brazil (~~ex Benth~~)

19. Toumatea latifolia (Benth.) Taubert, Bot. Centr. 47: 301. 1891.

Swartzia latifolia Benth. Journ. Bot. Hook. 2: 86. 1840.

Type locality: British Guiana.

Distribution: Known to me only from description of the type specimen.

20. Toumatea corrugata (Benth.) Taubert, Bot. Centr. 47: 390. 1891.

Swartzia corrugata Benth. Journ. Bot. Hook. 2: 87. 1840.

Type locality: Borba, Brazil.

Distribution: French Guiana (ex Bentham). Brazil. ✓

Note. ~~Not in New York Herbarium, June, 1928.~~

21. Toumatea leptopetala (Benth.) Taubert, Bot. Centr. 47: 391. 1891.

Swartzia leptopetala Benth. Journ. Bot. Hook. 2: 87. 1840.

Type locality: Borba, Brazil.

Distribution: Cassiquiare, Venezuela (ex Bentham) Brazil.

22. Toumatea cardiosperma (Spruce) Taubert, Bot. Centr. 47: 391. 1891.

Swartzia cardiosperma Spruce; Benth. in Mart. Fl. Bras. 15²: 390. 1870.

Type locality: Rio Negro, near San Carlos, Venezuela.

Distribution: Known to me ^{only from the type locality} ~~only from description.~~

23. Toumatea Panacoco (Aubl.) Baill. Hist. Pl. 2: 233. 1870.

Robinia Panacoco Aubl. Pl. Guian. 2: 768. 1775.

Robinia tomentosa Willd. Sp. Pl. 3: 1131.

Swartzia tomentosa DC. Mem. Leg. 409. 1825.

Swartzia polyanthera Steud. Flora 737. 1843.

Type locality: Cayenne

Distribution: French Guiana [Sagot; Melinon]; Dutch Guiana

[Hostmann 1267]

Illustrations: Aubl. loc. cit. pl. 307; DC. loc. cit. pl. 59; Baill. Hist. Pl. 2: f. 201, 202.

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24. Toumatea aptera (DC.) Taubert, Bot. Centr. 47: 390. 1891.

Swartzia aptera DC. Mem. Leg. 405.

Type locality: Cayenne.

Distribution: French Guiana (Ex DC.). Brazil (ex Bentham)

Note. Known to me from description only.

25. Toumatea polyphylla (DC.) Taubert, Bot. Centr. 47: 392. 1891.

Swartzia polyphylla DC. Mem. Leg. 411. 1825.

Type locality: Cayenne.

Distribution: Known to me only from description.

26. Toumatea Sprucei (Benth.) Taubert, Bot. Centr. 47: 392. 1891.

Swartzia Sprucei Benth. in Mart. Fl. Bras. 15²: 37. 1870.

Type locality: Cassiquiare, Venezuela.

Distribution: Cassiquiare and Pacimoni, Venezuela (~~ex Bentham;~~
~~ex Pittier~~). ~~Known to me from description only.~~

27. Toumatea Schomburgkii (Benth.) Taubert, Bot. Centr. 47: 392. 1891.

Swartzia Schomburgkii Benth. in Mart. Fl. Bras. 15²: 38. 1870.

Type locality: British Guiana.

Distribution: British Guiana [Schomburgk 894; Jenman 4775]

- ✓ 28. Toumatea pinnata (Willd.) Taubert, Bot. Centr. 47: 392. 1891.
Swartzia pinnata Willd. Sp. Pl. 2: 1220. 1799.

Type locality:

Distribution: Trinidad [Britton & Hazen 1044; Britton, Hazen & Mendelson 1096]; Venezuela [Broadway 449]

29. Toumatea acuminata (Willd.) Taubert, Bot. Centr. 47: 390. 1891.
Swartzia acuminata Willd.; Vogel, Linnaea 11: 173. 1837.

Type locality: Brazil.

Distribution: San Carlos, Rio Negro, Venezuela (ex Bentham; ex Pittier). Brazil.

Note. Known to me only from description.

30. Toumatea Trianae (Benth.) Taubert, Bot. Centr. 47: 392. 1891.
Swartzia Trianae Benth. in Mart. Fl. Bras. 15²: 39. 1870.

Type locality: Tocaima, Bogota, Colombia.

Distribution: Colombia and Brazil (ex Bentham). Known to me from description only. Not at Washington from Colombia Oct. 1922

Toumatea minutiflora (Klein & L.)
Swartzia minutiflora Klein & L. Rec. Trav. Bot.
Ned. L. 21: 408. 1296
Type locality: Suriname.
Distribution: Dutch Guiana.
Note: a 1-floreted species

36. *Juncus acutus* Martini B. & R.
Colombia (Martini 4620)

37. *Juncus acutus* L. & R. (Martini 4620)
Colombia (Martini 4620)

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31. Toumatea alterna (Benth.) Taubert, Bot. Centr. 47: 390. 1891.

Swartzia alterna Benth. Journ. Bot. Hook. 2: 89. 1840.

Type locality:

Distribution: British Guiana and Brazil (ex Bentham)

Note. ~~Not in New York Herbarium, June, 1928.~~ This genus?

Toumatea - near *S. tenebrosa*

Artich. Yunnan - see list no 528

32. Toumatea ? brachystachya (DC.)

Swartzia brachystachya DC. Mem. Leg. 408. 1825.

Type locality: Cayenne

Distribution: Known to me only from description. See Benth.
in Mart. Fl. Bras. 15²: 39. This genus? Not taken up by Taubert in
Centr. 47: 390-392.

Toumatea + *alterna* *petala* (P. and W.)

Swartzia + *alterna* *petala* P. and W., Kew Bull. 1931: 103

Type locality: Mazaruni River, near Mazaruni, British Guiana
This is the same known only from the type locality.

33. Toumatea Lengii Britton, provisional

Upper Mazaruni River, British Guiana [Leng 115]

34. Toumatea Gleasonii Britton, provisional

British Guiana [Gleason 425 type; 354]

35. Toumatea berbiceana Britton, provisional

Berbice - Rupernuni Trail, British Guiana [Abraham 215]

Toumatea - Gleason only
photo of *petala* Berbice.
(Date 899)

562 *Dicyna* le Pruce

Type & species: *Dicyna* le conynbora Pruce

1. *Dicyna* le altsonii Sandwith, New Bull.
1928: 371. 1928.

Type locality: Anandebar, Kopinang
River, British Guiana

Distinction: Known only from the
type locality.

2. *Dicyna* le fermami Sandwith, New
Bull. 1928: 373. 1928

Type locality: Kia ten Savanna L,
Potaro River, British Guiana [June 1906]

Distinction: Known only from the
type locality.

Aldina Endl

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Type species: *Aldina insignis*

57 *Aldina* in northern South America

1. *Aldina insignis* (Benth.) Endl. in Walp. Rep. 1: 843. 1842.

Allonia insignis Benth. Journ. Bot. Hook. 2: 91. 1840.

Type locality: Upper Essequibo River, British Guiana.

Distribution: British Guiana Jenman [5247] - Paudmitch -

58 Cyathostegia in northern South America

1. Cyathostegia Pachanoi Rose

[red]

Ecuador [Rose, Pachano & Rose 23338 type; Hitchcock 21333]

affinity?

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